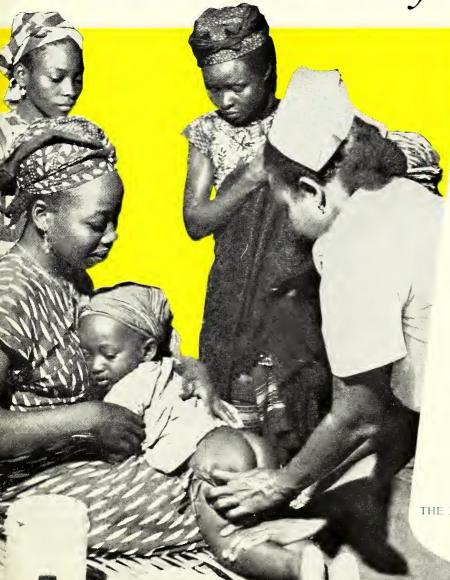


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For Retailer, Wholesaler and Manufacturer

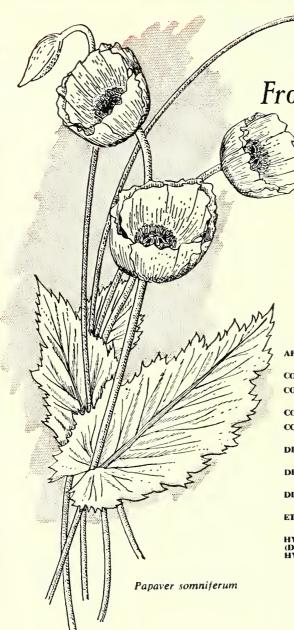
DECEMBER 11 1954

The war that nobody hates



Just for this once we want to forget about business and discuss the work of Unicef—the United Nations Children's Fund. Particularly its war against disease. Yaws, for example, a contagious disease that produces appalling ulcers all over the body, is endemic in many parts of Asia and Africa. By the end of this year in Asia alone, twenty-six million children will have been examined and 25 million will have received the single injection of penicillin that effects a cure. In Indonesia 100,000 cases are being cured every month, and the same beneficent war goes on in India, in the Philippines, Haiti, Bechuanaland, Liberia, Nigeria, Malaya, Fiji and Samoa; and this is but one aspect of the world-wide work of Unicef-one activity of the United Nations that will surely never be the subject of a veto. If ever the Unicef subscription list should come your way, please support it to the full. Better still, send a cheque now to UNA (or United Nations Association) Appeal for UNICEF, 25, Charles Street, London, W.I.

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From the poppy....

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In few other fields is 'know how' more important than in the production of Opium Alkaloids and related products. 'Know how' is not something new, nor is it acquired overnight. Dr. Thomas Smith, one of the founders of T. & H. Smith, Ltd., first investigated opium in the 1840's. His success in establishing production of morphine and its salts, together with technical progress since made by the company, particularly in the manufacture of special products for specific purposes, has made Opiates synonymous with Smith of Edinburgh.

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DIHYDROCODEINE BITARTRATE

ETHYLMORPHINE HYDROCHLORIDE

HYDROCODONE (DIHYDROCODEINONE) HYDROCHLORIDE

HYDROCODONE (DIHYDROCODEINONE) BITARTRATE

MORPHINE ALKALOID

MORPHINE SULPHATE

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**OPIUM** 

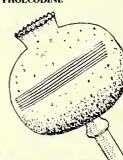
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Manufacturers of Alkaloids, Fine Chemicals and Pharmaceutical Preparations

EDINBURGH



The virtue of ergot in obstetrics was known at least as early as the 16th century in Europe. This knowledge was remembered only by midwives in the new world. At the beginning of the 19th century John Stearns heard the tale in Massachusetts, and brought the drug to the official cognizance of the medical profession.

The valuable therapeutic properties of ergot for obstetrics are now most suitably available in the pharmaceutically elegant form of ERGOMETRINE. Burroughs Wellcome & Co., who issued the first commercial ergometrine, supply it on favourable terms and in any quantity.

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# CREATE RECORD SALES

FOR CHEMISTS Hypak Nursery Bags keep Baby's feeding utensils, clothes, toys and bed linear completely protected from all germs, dust, dirt and dampness. They're ideal too for carrying soiled nappies and clothes when travelling or visiting. Mothers have been quick to realise the advantages of this new line which is marking up record sales in Chemists everywhere. Retail price is 4/9 per pack.

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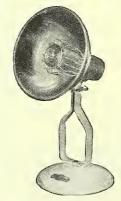
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Relief from Pain!



### 'SOL-TAN'

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This attractively finished model is finished in Ivory and Eau-de-Nil. Reflector dia.  $9\frac{1}{2}$ ". Height 16". Burner No. 2 L.W. 250 Watt or No. 2 M.W. 400 Watt. Supplied complete with Treatment Instructions.

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# Last Peccholistand the December before—many

chemists, busily concentrating on Xmas specialities, neglected to re-order Alka-Seltzer. Then—as usual round about Christmas—Alka-Seltzer sales rocketed. We were bombarded every day with urgent orders by post, telegram and telephone. Don't let history repeat itself . . .

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  - ★ Easily painted on, easily washed out.
  - ★ Can be used on natural, tinted or bleached hair.
- ★ Balanced emulsified oil content to preserve shape of curls.
  - ★ More than 120 individual applications from one bottle.
    - ★ Attractively packed for sale at 10/6, showing you a good profit.
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Paynocil is a new, non-irritant, palatable analgesic representing a considerable advance in formulation among products of its kind. It combines acetylsalicylic and amino-acetic acids in a tablet offering the following advantages:

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- \* It disintegrates pleasantly and rapidly on the tongue; swallowing with water or chewing are unnecessary.
- \* An effective dose of aspirin (10 grains— 0.65 gramme) is provided in one tablet.

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### LONG TERM, INTENSIVE USE

Because of its non-irritant properties Paynocil is ideal in the prolonged aspirin therapy necessary in rheumatoid arthritis.

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It is equally suitable for the occasional analgesia required for headaches or neuralgia owing to its convenience and acceptability to all patients.

Formula: each tablet contains:

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. 10 grains (0-65 gramme)

Amino-acetic acid . . . . . . . . . . . . . . 5 grains (0.32 gramme)

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Telegrams: Bencarlond, Harles, London

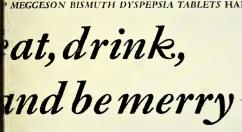
# Dominating advertisements i



Thanks to the recommendations by chemists and satisfied users, the demand for Meggeson Bismuth Dyspepsia Tablets has been steadily increasing, all over the country, month after month, year after year. Now, the largest national advertising campaign ever issued by the House of Meggeson will bring more customers than ever, to chemists only, throughout the festive season and in the New Year. Please, look to your stocks now.

### EASON

# argest circulation newspapers



n't let worries about indigestion spoil your etite or your enjoyment of the festivities. ply suck a MEGGESON Bismuth spepsia Tablet and enjoy quick relief m indigestion at all times. These pleasantly oured tablets end discomfort, help to tore the acid balance and promote good estion. Pocket tin 1/8. Home-use tle 4/31 From chemists only.



# Daily Mirror PAGE DEC. 24

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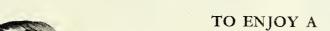
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# IEGGESON Bismuth Dyspepsia Tablets

YOU SUFFERED FROM Indigestion LAST YEAR HERE'S WHAT YOU NEED TO HELP YOU





Happy New Year

hurry over meals, caung when you're tired or worned, over-indulging in fatty se know that they cause 'sour' stomach, heartburn, flatulence, nausea, lack of Fortunately, there is a very simple was to correct these digestive

MEGGESON BISMUTH DYSPEPSIA TABLETS BRING YOU QUICK RELIEF

In the mouth, these lavender-flavoured tablets stimulate the flow of salina which is such an important part of natural disestion. In the stomach, the Mesocson formula relieves discomfort, helps to restore the ucid balance, and promotes aind, thorough digestion of your feed. Never be without Meggeson Bismuth Dispepsia Tablets in your pocket or bag, and at home. Handy tin 1 8

**MEGGESON** Bismuth Dyspepsia Tablets

# News Chronicle PAGE JANUARY 6

# December 29

10" x 4 columns

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# MEN ONLY

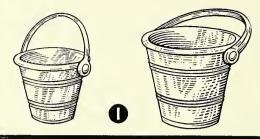
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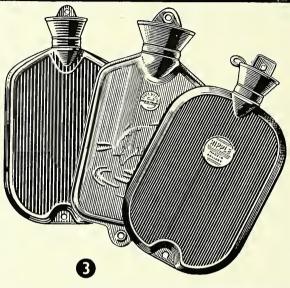
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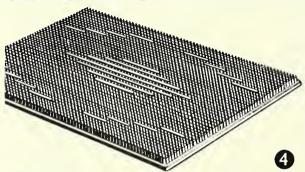
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# CANNON RUBBER QUALITY AND VARIETY

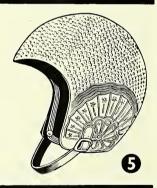


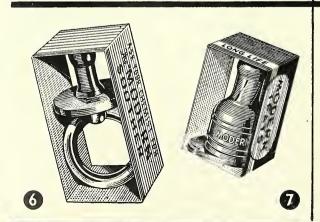






- I RUBBER BUCKETS
- 2 CHILDREN'S HOT-WATER BOTTLES
- 3 HOT-WATER BOTTLES
- 4 MULTI-PURPOSE MAT
- 5 BATHING CAPS
- 6 'MODERN' SOOTHER
- 7 'MODERN' TEAT





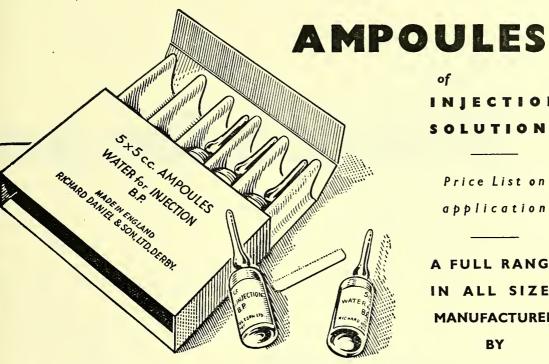
The family of Cannon Rubber products is always increasing. The range includes the world famous MODERN teats and soothers, the CAPITOL series of bathing caps and RIPPLE AND DOLPHIN Hot Water bottles. Popular with children are the NOAH'S ARK ANIMAL and COTTAGE DOLL hot water bottles in novelty boxes. Cannon products give long, safe service and are made of the highest quality rubber.

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of INJECTION SOLUTIONS

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you will see Yardley gifts

and gift cases advertised with

a charming Christmas flavour in a half page

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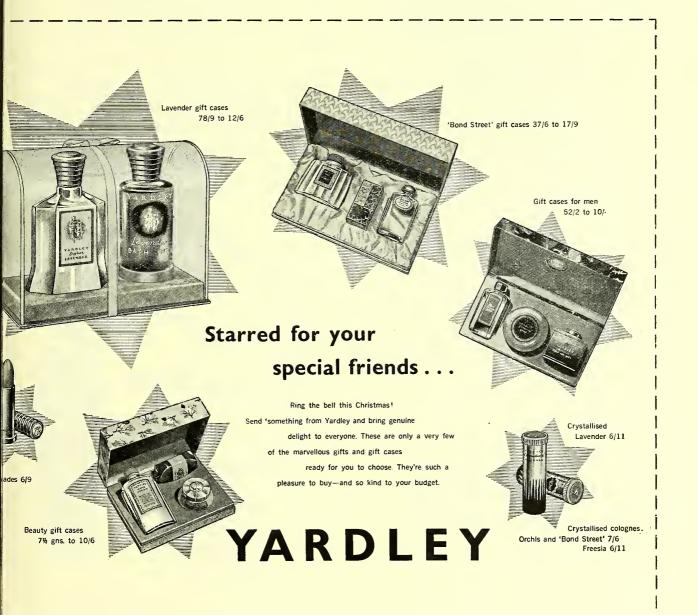
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in other important newspapers

covering all parts of the country.

# YARDLEY

# Christmas selling...





# There's a genuine demand

for this new infant's bath

LIGHT to handle and, at the same time, virtually unbreakable, the 'Plastabath' is safer and much more convenient in use. Mothers are quick to realize these advantages and the fact that size and shape are just right. The material, too, is soft-surfaced, although tough and resistant to wear. Also there is the Ekco matching Plastapot for the nursery. Get in quickly with these new lines-there's a genuine market!



PLASTABATH 39/6 with Stand 59/6 PLASTAPOT



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# In myocardial infarction

# TROMEXAN

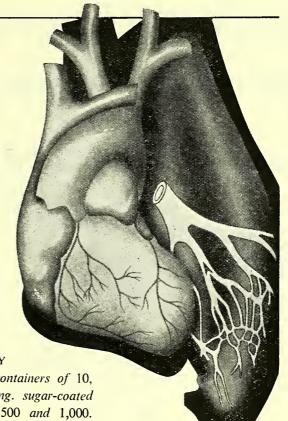
Ethyl Biscoumacetate, B.P.

RAND

Ethyl 4: 4'-dihydroxydicoumarin-3: 3'-yl acetate

IT has been found that the administration of anticoagulants considerably reduces the mortality rate and lessens the incidence of thrombo-embolic complications.

Tromexan, in addition to possessing a safety factor unsurpassed by any other oral anticoagulant, provides the rapidity of action so essential for the successful treatment of myocardial infarction.



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TROMEXAN is prescribable on N.H.S. form E.C.10.

Literature on request

A Geigy Medical Announcement



PHARMACEUTICAL LABORATORIES GEIGY LTD.
Rhodes, Middleton, MANCHESTER

PH. 66.

# January 1st—nation-wide VAPEX MEDICATED RUB publicity begins. Will your stock meet

winter demand?





NOW\_

The Polymask

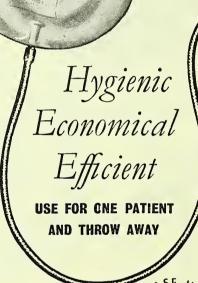
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Oxygen inhal

The low cost permits of a new mask being used for every patient. The risk of spreading infection is thereby avoided.

Strong, feather-light, safe, and comfortable to wear, this new type of mask conforms readily to the face structure, stays firmly in position, and permits conversation to be carried on quite easily. The periphery seals efficiently with the skin, giving high alveolar concentration . . . e.g approximately 70% at 7 litres of Oxygen per minute.

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# THE BRITISH OXYGEN CO. LTD

MEDICAL DIVISION



Great West Road Brentford Middx.

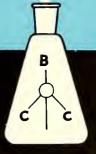
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ESSENTIAL OILS

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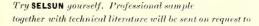
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### References:

- Slinger, W. N., and Hubbard, D. M. (1951),
   Arch. Dermat. d. Syph., 64:41, July.
- 2 Slepyan, A. H. (1952), Ibid., 65:228, February.
- 3 Ruch, D. M. (1951), Communication to Abbott Laboratories





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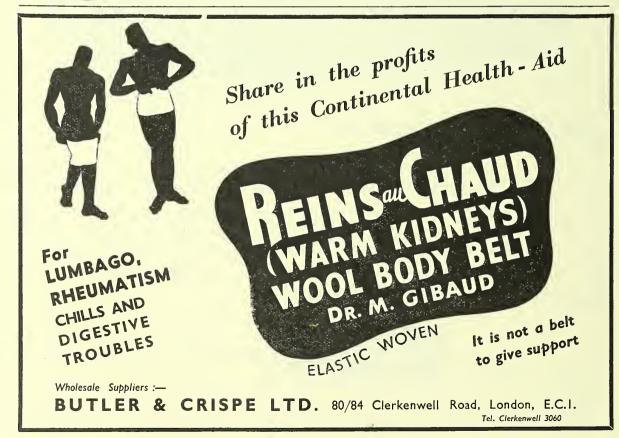


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# THE CHEMIST RUGGIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 162

Les

December 11, 1954

No. 3903

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Volume 162

**DECEMBER 11, 1954** 

No. 3903

# N.H.S. Costs Inquiry B.M.A.'s EVIDENCE TO COMMITTEE

THE British Medical Association has published its written evidence to

the Guillebaud Committee on the cost of the National Health Service in England and Wales.

The section on the pharmaceutical service expresses concern at the mounting cost of that service but reiterates the Association's view that there should be no departure from the doctor's established right to prescribe whatever he considers to be in the best interests of the patient. Among suggestions for economies are that a system of area prescribing averages should be intro-duced; that a "stock order" scheme for drugs and dressings for use in the surgery such as there is in Scotland, should be started; that there should be better medical education in the art of prescribing and in pharmacology; and that the *National Formulary* should be reformed. The memorandum suggests that there is reason to believe that the cost of drugs and appliances has risen in much the same manner as other commodities and that that would account for a large proportion of the increase in prescribing costs. Again the country is supporting a progressively ageing population. In the Association's view it is no answer to attempt to place the blame on the profession for the mounting cost of the drug bill. It is suggested that arrangements should be made with the pharmaceutical manufacturers to reduce the cost of proprietary preparations for use in the Service and that wastage might be prevented by consultation between manufacturing chemists and the Ministry of Health on the size of packs of proprietary drugs. The Association be-lieves that there is too little emphasis on the preventive aspect of a general practitioner's work in the training of the medical student and that the public should be made aware of the basic principles of health by an appropriate campaign. The B.M.A. has also submitted oral evidence to the Guillebaud committee. The memorandum of evidence of the Scottish committee of the B.M.A. was summarised in the C. & D., April 3, p. 337.

### KEY INDUSTRY DUTY New exemptions

AN Order, published as Statutory Instrument 1954, No. 1609, exempts the following chemicals from Key Industry Duty, for the period December 9-February 18, 1955:—a-Aminodiphenylmethane hydrochloride, barium hydroxide, o-phenetidine, 2:4:5-Trichlorophenol.

### MALLINSON MEMORIAL Decision soon

THE Executive of the National Pharmaceutical Union has been considering what permanent memorial to set up to its founder-secretary, the late Mr. G. A. Mallinson, O.B.E. The Executive has discussed with the Council of the Pharmaceutical Society the possible creation of a residential home for elderly pharmacists or their immediate dependents, the Union providing part of the capital cost and inviting donations from members, and a decision on that matter is expected soon. The Executive declares its intention to perpetuate Mr. Mallinson's memory in that or some other worthy way.

# ALCOHOL TABLES Strengths at 20° centigrade

NEW tables showing the relation between the specific gravity of spirits at 20° C. and the percentage of ethyl alcohol by weight and volume, with the corresponding percentage of proof spirit, have been approved by the Commissioners of Customs and Excise, and their use to ascertain the strength of spirits has been authorised by Statutory Instrument No. 1611, 1954. The new tables supplement, but do not supersede, the existing tables of specific gravity of spirits at 60° F. and 80° F. respectively. The amount of Customs or Excise duty chargeable is the same whichever tables are used. It is expected that the new tables will be more convenient for laboratory workers who are accustomed to express a number of physical and chemical properties of substances by reference to a standard temperature of 20° C. Copies of the tables may be obtained from H.M. Stationery Office, price 4s.

### NUTRITION RESEARCH Drummond fellowship details

APPLICATIONS for the Drummond fellowship for research in nutrition are being considered by the Drummond Trust in March 1955. The value of the fellowship is £900 a year, to which may be added expenses of research up to £50, and superannuation up to £90. The fellowship is normally tenable for two years. Further details are available from the secretary, Drummond Trust, University College,

Gower Street, London, W.C.1. Application forms must be received by January 15, 1955.

### SICK PAY

New hospital pharmacy agreement

COMMITTEE C of the Pharmaceutical Whitley Council has reached agreement on an addition to the hospital pharmacy sick pay scheme. The agreement provides that if an officer loses Insurance benefit through failing to send a medical certificate covering the first three days of absence to the Insurance authorities, he will not have the lost benefit deducted from his sickness allowance provided that a certificate is sent, as above, not later than the day on which he is required to submit a medical certificate to his employers.

### CHEMICAL APPARATUS

### Manchester exhibition

AN exhibition of new chemical apparatus, with the accent on apparatus for distillation and fractionation, is being staged at Manchester College of Technology, January 5-6, 1955, by the Manchester Section, Royal Institute of Chemistry. The exhibition will be open to the public from 2 to 8 p.m. on January 5 and from 10 a.m. to 8 p.m. on January 6.

### SURFACE CHEMISTRY London evening lectures

BOROUGH Polytechnic, London, S.E.1, is arranging three courses, each of ten lectures, starting in January 1955. They are: "Surface Chemistry and Colloids" (with special reference to the properties of detergents), on Wednesdays at 7.30 p.m.; "Surfaceactive Agents" (dealing with industrial



PERFUME PRIZE AT CHARITY BALL: H.R.H. Princess Alexandra of Kent presents a bottle of Ma Griffe perfume to a lucky programme prize-winner at the Five Hundred ball held in London recently.

production), on Wednesdays at 6 p.m.; and "Human Nutrition" (energy requirements) on Mondays at 6.30 p.m. Further information can be obtained on application to Dr. F. Aylward at the department of chemistry and food technology of the Polytechnic.

BILLINGHAM EXPANDS Meeting plastics industry's demands

THE Billingham works of Imperial Chemical Industries, Ltd., which converts petroleum residues to higher alcohols by treatment with hydrogen and carbon monoxide under pressure, is being expanded to meet the demands of the plastics industry at home and abroad. The potential output will be 40,000 tons annually, valued at over £5 millions. By-products include butanol and iso-butanol, solvents that are used mainly in the paint industry.

# FINE CHEMICALS Economics of industry's research

THE fine chemicals group of the Society of Chemical Industry recently heard an address by DR. G. M. Dyson on "The Economics of Research in the Fine Chemical and Pharmaceutical Industries." Dr. Dyson distinguished between free and objective research. For the latter he described the costs of a typical investigation, and discussed whether research costs should be charged directly to the resulting products, or spread over all the products manufactured. In discussion DR. H. J. BARBER (chairman) considered the problem of forecasting the capital investment involved in putting a new product into production and on to the market, DR. F. HARTLEY discussed research costs in the pharmaceutical industry, and the maintenance of competition among manufacturers when the Ministry of Health was the largest single purchaser. DR. G. E. FOSTER raised the question of the economics of the individual carrying out the research, and the advantages of incentive schemes or of royalty payments. Other speakers thought that the detailed splitting of research costs could be carried too far, and that generally boards of directors had sufficient faith in their research organisations to give them a free hand over a period of years.

# REASONS FOR RETIRING Results of an inquiry

THE chemical and allied trades are among those in which the highest proportion of workers are retired or discharged at the age of sixty-five, according to a recently published report of an inquiry by the Ministry of Pensions and National Insurance into the reasons given for retiring or continuing work. The report covers the reasons given by both men and women, grouping those questioned into those reaching minimum pension age, those retiring between sixty-five and seventy (men) and between sixty and sixty-five (women) and those still working at seventy or sixty-five respectively. The seventy or sixty-five respectively. reasons for retiring or staying on are given for each group, a general picture of the reasons is shown, and each of the main reasons is examined and discussed. Much of the information given is in tabular form, giving a representative picture of factors that may influence workers in different occupations or circumstances in deciding when to retire. The report is published by H.M. Stationery Office, price 5s.

PRICING BUREAUX
Output in 1953-54

ACCORDING to the report for the year ended March 31, 1954, of the Joint Pricing Committee for England, the numbers of prescriptions dealt with at the various pricing bureaux during 1953-54 are as follows, with the number of staff employed shown in parentheses:—Birmingham, 14½ millions (65); Bolton, 25 millions (80); Clapham, 21½ millions (99); Durham, 22·6 millions (79); Leytonstone, 18¼ millions (81); Liverpool, 18¼ millions (76); London, 24 millions (91); Manchester, 18½ millions (70); Newcastle No. 1, 14½ millions (83); Northumberland No. 1, 14¼ millions (69); Northumberland No. 2, ¼ million (51); Preston, 16½ millions (69); Sheffield, 19 millions (67); Smethwick, 15 millions (65); Wakefield, 26·2 millions (98). The total number of prescriptions dealt with during the year was 283,849,441.

### NATIONAL INSURANCE Rates up from June 1955

WEEKLY insurance contributions paid by employers and employees are being increased by one shilling in June 1955, to compensate for increased retirement, disablement and widows' pensions, sickness and unemployment benefits, and national assistance rates. The weekly contribution for self-employed persons is also being raised by one shilling, and that for non-employed persons by elevenpence. Retirement pensions are being raised to 40s. for a single person and 65s, for a married couple, from the end of April 1955 and unemployment and sickness benefits are both being raised to 40s, at the end of May. The standard rate of industrial injury benefit and of the 100 per cent. industrial disablement pension will be raised to 67s. 6d., with similar increases in extra allowances

### ROYAL SOCIETY Award of bursaries

THE second group of awards under the Royal Society and Nuffield Foundation Commonwealth bursaries scheme were recently announced, and the recipients include the following:—Professor S. N. De (professor of pathology, Nilratan Sircar Medical College, Calcutta) to enable him to study the mechanism of action of the cholera vibrio, at University College Hospital Medical School, London, June to September 1955; Dr. T. A. O'Donnell (lecturer in chemistry, Melbourne University) to study inorganic fluorides at Cambridge during 1955; Dr. J. C. Smith (demonstrator and lecturer in chemistry, Oxford) for visit to Pretoria and Melbourne to study methods of research on the chemistry of fats and waxes, January to September 1955.

### RATING REVALUATION

RATING revaluation of shop and other business premises would "go to the sky," anything from two-and-a-half to seven times existing levels, declared a rating valuation consultant (Mr. E. L. Oliver) at a Watford traders' meeting recently. He explained that rating valuation, at present based on pre-war rents, had passed from local authorities to the Inland Revenue Department. Draft lists would almost certainly be ready by next autumn and take effect from April 1, 1956. Shop-keepers would not be notified direct of their new assessments. They must watch for draft lists displayed for twenty-one days at the local town hall. Within four days of the list being withwithin four days of the list being withdrawn any objection, with reasons, must be lodged with the local valuation officer. Objections not accepted by him could go to a local valuation court, with final appeal to a Lands Tribunal, Mr. Oliver warned against rushing to a tribunal without taking professional valuer's advice for the professional valuer's advice, for the tribunal had power to award costs and the Inland Revenue would almost certainly be represented by a barrister. Mr. Oliver did not believe that local authorities, restricted for years to rigid budgets, would return the big increase in rateable value to the rate-payers in the form of lower rate poundage. The Government would also be sorely tempted to reduce general taxation by cutting the present substantial grants made to local authorities. Oliver's personal view was that many shopkeepers would suffer distress and hardship, specially those who had recently bought high-rented businesses without realising that sooner or later rating assessments must follow the rents. On the other hand, he felt that the next revaluation, five years hence, should bring assessments down to more reasonable levels than those obtained under present conditions.

### DOCTORS AND PRESCRIBING

A SUBSTANTIAL part of the bulletin for 1953-54 of the Glasgow Medical Committee is concerned with drugs and prescribing. The chairman of the committee (Dr. Angus Cameron) in his foreword writes: "There is, in my opinion, a growing need for practitioners to remember that, if we are to have the respect of our collegues for have the respect of our colleagues for our honour and integrity we must be ever watchful not to transgress the Hippocratic Oath by commercialising our profession. To some it may appear advantageous to be lax with certification and more than generous with prescribing, but these lapses bring their own nemesis." The committee points out nemesis." The committee points out that there is an implied responsibility on a practitioner to exercise care in the use of substances which are proprietary, or which are more commonly regarded as food or toilet preparations. welcomes the arrangements that have been made for the provision of statistics about the individual prescrib-ing of practitioners, believing that that is the most effective means of assessing whether or not a practitioner may be said to be guilty of extravagance. The total number of persons on the lists of medical practitioners in Glasgow on April 1 was 1,061,296.

#### **NEWS IN BRIEF**

EMPLOYEES of Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs, have invested more than £15,000 in national savings stamps since July 1940, through their savings scheme.

OF £12,000 in grants allotted to Colonial Development and Welfare Research schemes since 1940, 15 per cent. was for medical research, according to the Colonial Research Council's report published on November 30.

THE laboratories of Evans Medical Supplies, Ltd., Speke, were visited by pharmaceutical students from the Royal Technical College, Glasgow, on November 15, and by students from the department of pharmacy, Liverpool College of Technology, on November 23-24.

RESTRICTIONS on waiting by vehicles in a further eighty streets in inner London began on December 5. The areas affected are Paddington, St. Marylebone and Westminster (no waiting); and Chelsea, Paddington, St. Marylebone, St. Pancras, and Westminster (unilateral waiting).

DURING a theatre outing recently for the staff of Matthews & Wilson, Ltd., London, S.E.1, a presentation was made to Mr. F. G. Jameson, B.Pharm., F.P.S., to mark the occasion of his resignation as managing director after sixteen years' service with the company.

EACH member of the Wolverhampton Wanderers' football team has been presented by Mr. Neville Brown (chairman, Neville Brown & Co., Ltd., London) with a free camera in a case bearing his name to commemorate the team's recent victory over the Russian Spartak team.

MEMBERS of the fine chemicals group of the Society of Chemical Industry were guests of Shell Chemicals, Ltd., at a conversazione in London recently. They were welcomed by Mr. G. H. W. Cullinan (general manager of the company), to whom the chairman of the group (Dr. H. J. Barber) made acknowledgement. During the evening two films were shown and an exhibition devoted to the insecticides aldrin and dieldrin was open for inspection.

THE annual meeting of the Incorporated Society of Pharmacy and Drug Store Proprietors of Great Britain, Ltd., was held in Leeds on December 2, when all the officers were re-elected. Discussions took place on the C.F. scheme and the Monopolies Commission; the Pharmaceutical Society's attitude to unqualified assistants; sales of "patent" medicines at co-operative societies' stores; and the sale of C.F. products in drug-store shops controlled by multiple chemists. Tributes were paid by many members to the late Mr. E. D. Glover (the Society's organising secretary for many years).

#### **SPORT**

Bowls. — Bowling Section, Galen Sports Club. The winner of a recent bowls competition in Brighton, Mr. R. G. Wescombe, was presented with a silver trophy awarded by Messrs, Barclay & Sons, Ltd., after a dinner on November 29. A prize was also presented to Mr. J. Shayler (runner-up).

## TOPICAL REFLECTIONS

By Xrayser

#### Dispensed Proprietaries

Among the many interesting questions discussed at the "Open Forum" at Southampton (p. 570), not the least important was that relating to uniformity of practice in the dispensing of proprietary medicines. I think that the majority will agree with the general feeling expressed by the panel that there should be, so far as possible, nothing to distinguish between such preparations and their unsung relations in the extemporaneously prepared field. That is an ideal which requires the co-operation of all concerned. Pharmacists themselves should make every effort to remove all identifying evidence. It is not conducive to public confidence for one chemist to remove all trace of origin and another simply to affix his label over the carton or label of the manufacturer. Here, unfortunately, the pharmacist who follows the advice of the panel is the sufferer. The complexity of the situation appeared to be well understood, and Dr. Davis used a telling argument in his reference to patient-pressure on the prescriber. While sympathising with the attitude of the manufacturer, as expressed by Mr. Hanbury, in relation to the use of a name for counter selling, I cannot subscribe to his view that the manufacturer in general is "quite neutral" in the matter of dispensed medicines. It has seemed to me that the manufacturer is making it more difficult to hide the light of his product under a bushel. Embossing the proprietary name of a drug on the tablet itself is not the only thing I have in mind. All will agree with the advice of Dr. Davis to remove all relevant literature which may be quite irrelevant in the hands of the patient.

#### Cloves

An answer in your column "Miscellaneous Inquiries" (p. 581) reveals that Zanzibar now supplies 80 per cent. of the world's cloves. Spices generally have been the source of much of the world's commerce throughout history, and have been almost as productive of economic warfare as gold and diamonds, oil and rubber. The clove, as our materia medica taught us, was indigenous to the Moluccas, and though known to the Chinese of the Han period, did not make any great impact on the Western world until the time of the great sea explorers. Drake, in the Golden Hind, found his way to the Spice Islands, where Vasco da Gama had already established a claim. Lisbon became for a time the centre of the trade, to the financial advantage of Royalty. But all was gentlemanly compared with the relentless monopoly established by the Dutch East India Company, which captured Amboina from the Portuguese, and proceeded to destroy any growth in the neighbouring islands, making annual pilgrimages from Amboina for the purpose. All young plants were systematically destroyed, and for 200 years the Dutch reigned supreme. Not until 1770, when a French expedition managed to obtain seeds and seedlings from the less-populated parts of the Moluccas was the stranglehold released. Thereafter, the French established cloves in Cayenne, Madagascar, the Seychelles and Mauritius, and it was from the last-named that an Arab introduced the tree to Zanzibar in 1818.

#### Clove Pink

Our older pharmacopæias included a preparation called syrup. caryophylli which was used as a flavouring and as an excipient in the making of pills. It had no connection with the cloves of commerce. The syrup was an elegant, aromatic galenical made from the fresh flowers of the clove pink. Earlier still, an infusion of the petals of the flower was thought to be effective in the treatment of heart conditions and in nervous disorders. The poets, who liked a beautiful flower the better if it had a poetic name, made many references to the July flower. Chaucer recommended "Clove Gilofre" as an addition to ale, and Spenser wrote: "Bring hither the Pincke and purple Cullambine with Gilliflowers." In 1578, Lyte published "A Nievve Herbal" in which he called the plant the Clove Gillofer. Yet, with all the advances made in the art of perfumery, the haunting fragrance of the pink has eluded the perfumer.

#### BRANCH AND ASSOCIATION MEETINGS

EXECTER

#### Talks on Antibiotics and C.F.

OXYTETRACYCLINE and other antibiotics were reviewed by Mr. M. N. GILSON, B.Pharm., F.P.S., at a meeting of the Exeter Branch of the Pharmaceutical Society held at Barnstaple recently. He dealt with narrow and broad spectrum antibiotics under the headings of uses, side-effects and toxicity. When the side-effects and toxicity. When the newer long-acting forms of penicillin were used, he said, it was necessary to give an initial loading dose of soluble penicillin to ensure an immediate effect on the infecting organism. Broad-spectrum antibiotics were chloramphenicol, chlortetracycline, oxytetracycline and tetracycline, whose wide range of action made them useful in a variety of infections and did not readily give rise to resistant strains of organisms. Viocin sulphate was mentioned as being of use in the treatment of tuberculosis.

GUEST speaker at a joint meeting of the Branch with the Exeter Branch of the National Pharmaceutical Union at a later date was MR. C. C. GREEN (assistant secretary, Chemists Federation) whose main theme was that a 100 per cent. C.F. policy in retail pharmacy was a sound business proposition for all plants of the control of the contr for every retailer. In appealing for more active support he stated that the present position of C.F. was serious; far too many retailers appeared to think their obligations ended with the payment of a subscription; action and not

lip service was required.

#### WEST LONDON

#### Pharmacy Limitation

A DISCUSSION on the possible limitation of pharmacies was the main feature of a meeting of the Western Pharmacists' Association held recently. Opening the discussion, Mr. W. F. WILKINSON (secretary, London Pharmaceutical Committee) said that some form of limitation of pharmacies was necessary. The tendency now was for a pharmacist to open a shop in an area that was already adequately covered. In an endeavour to meet his obligations and make a living, he would have to "steal" his dispensing from the entrenched pharmacists by keeping late hours. That policy would prove a mixed blessing when he wanted to sell his business. The standard of living of pharmacists would suffer if sort of thing continued. Could the members suggest how control could be effected, and what body could best act as arbitrator? An Australian Visitor said that any form of limitation was undesirable, but hours of service should be enforced. A MEMBER asked who could decide whether an area was suitable for another pharmacy? If local members were on the committee they would have a vested interest in preventing any encroach-ment upon their businesses. Summing up, Mr. Wilkinson suggested that a committee consisting of the president, vicepresident and members of the Society's Council would be an unbiased body. The meeting opened with two films presented by Mr. P. J. White. The first, "Mediaeval Pictures" was colour film depicting ancient art. "The Unadulterated Truth," which came next was a Canadian film showing the operation of the Foods and Drugs Act in Canada.

#### HOUNSLOW

#### **Prescription Pricing**

FOR the first time, said MISS D. MUR-GATROYD (superintendent, South-eastern pricing bureau) in an address on "Pricing N.H.S. Prescriptions "given at the opening meeting of the 1954-55 session of the Hounslow Branch of the Pharmaceutical Society held recently, she was speaking about pricing prescriptions which were actually current ones. Miss Murgatroyd gave a detailed account of the method of pricing prescriptions from the time they received from the Post Office until the final account was certified as correct. She emphasised the method of checking and said that all accounts were checked twice by different methods. Several queries arose constantly, and wrong endorsements by pharmacists headed the list. Claims for balance of pack often caused difficulty. Those could only be made for proprietary products. She regretted having to disallow payment for appliances that had been provided by pharmacists, but the specifications for appliances were laid down in the Drug Tariff, and she urged pharmacists to refer to it before supplying them. In answer to questions, Miss Murgatroyd said that if two bottles of a proprietary preparation were ordered on one form, it was counted as only one prescription. Prescriptions for oxygen should be submitted monthly and the pharmacist should not wait until the fittings were returned. The Executive Council should be notified of date of issue and date of return. MR. JACKSON, Hounslow, protested that payment was not made for the balance expensive non-proprietary drugs. Miss Murgatroyd replied that that was not within the power of the pricing bureaux to deal with, but that the questioner should send his protest to the secretary of the Local Pharmaceutical Committee.

#### **EASTBOURNE**

#### **Developments in Vegetable Drugs**

VEGETABLE drugs and their importance as a field of investigation were discussed by Mr. A. R. G. CHAMINGS, B.Pharm., F.P.S. (Ciba Laboratories, Ltd.) at a meeting of the Eastbourne Branch of the Pharmaceutical Society held recently. Mr. Chamings referred to the significant "accident" in Sir Alexander Fleming's laboratory that resulted in the development of penicillin and the succession of later antibiotics. He dealt with recent developments in their use, particularly the problems of resistance. A film showing the effects of antibiotics on the micro-organism E. coli was shown. Mr. Chamings outlined the search amongst a wide outlined the scatter almost a wide range of plant products for basic steroids for the synthesis of cortisone. (diosgenin from the Mexican yam; hecogenin from sisal; ergosterol from

yeast; stigmasterol from soya) and the significant microbiological transformation of steroids such as progesterone, using Rhizopus nigricans. He said that colchicum corn, with its potent anti-mitotic alkaloid colchicine, had now yielded a secondary alkaloid, demecolcine having one-thirtieth of the toxicity of colchicine when used intravenously. Already that substance was producing significant results in chronic blood conditions such as myeloid leucæmia. Interest in raspberry leaves and Aristolochia had recently been revived as a result of papers presented at the British Pharmaceutical Conference. The genus Ammi yielded khellin, coronary dilator, from Ammi visnaga, and Ammi majus was now being used in the treatment of the refractory skin condition vitiligo. Curare had provided the basis for the development of an important group of therapeutic agents, and the drugs having vasodilator effects, Veratrum and Rauwolfia serpentina were being increasingly used. A film showing the tranquillising effect of reserpine on the Rhesus monkey was shown to the Branch.

NORWICH

Doctors' Night

AT a "doctors' night" held by the Norwich Branch of the Pharmaceutical Society on November 3, Dr. E. LESTER SMITH (senior biochemist, Glaxo Laboratories, Ltd.) gave a talk on the isolation, properties and functions of vitamin B<sub>12</sub>. He said that the vitamin appeared to be essential for the metabolism of protein and carbohydrate and, indirectly, of fat; and for the synthesis of labile methyl groups in methionine, choline, etc. It was inmethionine, choline, etc. directly concerned in the conversion of carotene to vitamin A and was essential for the synthesis of nucleic acids. It was, therefore, involved in the regeneration of cells with a rapid turnover such as red blood cells. Macrocytic anaemias resulted from lack of vitamin B<sub>12</sub> but folic acid was also needed. Folic acid would bring haematological remission pernicious anaemia but was not able to prevent or reverse spinal cord degeneration as was vitamin B<sub>12</sub>. Vitamin B<sub>12</sub> was normally stored in the liver and spleen but an amount sufficient for immediate requirements circulated in the blood stream. The vitamin appeared to be synthesised only by micro-organisms, and synthesis could occur in the animal gut and particularly in the rumen of sheep and cows. Very little vitamin B<sub>12</sub> was found in the vegetable kingdom and, in consequence, strict vegetarians who did not eat dairy produce were liable to suffer from a deficiency. In answer to a question on oral treatment of pernicious anaemia, Dr. Lester Smith pointed out that the primary lesion of pernicious anaemia was atrophy of the stomach glands secreting hydrochloric acid and the intrinsic factor that promoted absorption of vitamin B<sub>12</sub>. Oral therapy could take the form of small doses of vitamin B<sub>12</sub> plus intrinsic factor, or larger doses without intrinsic factor.

#### MEDICAL SCHOOL CENTENARY An exhibition at St. Mary's Hospital, Paddington

AS part of its centenary celebrations, the medical school of St. Mary's Hos-pital, Paddington, London, W.2, arranged an exhibition that occupied four floors at the School and the Wright
November 30-Fleming Institute, November 30-December 4. Demonstrations covered many fields of medical science and research. Each was supported and explained by photographs, diagrams and display boards. A penicillin jubilee exhibition, staged on the ground floor of the medical school, was arranged and presented by the four British manufacturers of penicillin: Boots Pure Drug Co., Ltd., the Distillers Co. (Biochemicals), Ltd., Glaxo Laboratories, Ltd., and Imperial Chemical (Pharmaceuticals), Ltd. It showed, by means of pictures, diagrams, medical abstracts and pharmaceutical exhibits, the story of penicillin from 1928 to the present day. Cultures of the mould at different growth stages were supplemented by pictures and diagrams of early production centres and of present-day deep-culture plants in Britain. A graph showed the trends of production and prices from 1946-54, and a diagrammatic representation of the human body showed the various uses of the drug and its pharmaceutical modes of use (injections, ointments, creams, powders, tablets, lozenges and suspensions).

#### **Biochemical Research**

In the biochemistry department of the school were shown studies in fluorescence chromatography, including the use of ultra-violet fluorescence for illuminating normally colourless substances in the urine. Fluorescence chromatography was also presented as a method for the earlier diagnosis of cancer—a method depending on the presence in living tissue of an enzyme  $\beta$ -glucuronidase, which, with 4-methylumbelliferone glucuronide, produces glucuronic acid and the highly fluorescent 4-methylumbelliferone. Cancer cells having been found to contain many times as much of the enzyme as normal cells, fluorimetric estimation of the amount present in certain body fluids may give earlier indication of the presence of cancerous tissue. In the presence of cancerous tissue. the same department was presented a comparison of the breaking-down in the body of a drug (salicylic acid) and an industrial poison (benzene), using a radioactive isotope of carbon. There was a small display of salicylate medicaments, among them a bottle of mist: sod. sal. N.F., methyl salicylate oint-ment, tablets of aspirin and of sodium gentisate, and two National Health Service prescriptions.

In the physics department, apparatus for the transport, storage and handling of radioactive isotopes was shown, and a demonstration was given of the use of radioactive tracers in determining circulation times, blood volume and cardiac output. Glass apparatus represented a model circulation. It contained red-dyed distilled water, into which was injected a purple dye representing

Among medical photographs on dis-

play in the photographic department was a collection of colour transparen-cies showing typical pigmentation, etc., of the tissues in various diseases.

In the pharmacology department, a display of apothecaries' jars and bottles included two enamelled delft ware leech jars, drug barrels and boxes, seventeenth-century medicine bottles and a bronze mortar, dated 1663, which once belonged to John Battersby, a Fenchurch Street, London, a pothecary and friend of Samuel Pepys. Curare gourds and calabashes that once contained curare were shown, and in the corner was an early type of inhaler containing sponges, and designed in 1847 by Jacob containing Bell. The exhibits in the historical display were loaned by Mr. A. J. Fairlee, M.P.S.

The story of histamine was also illustrated and microscope slides showed sections of nettle leaf and of the skin of a patient suffering from urticaria pigmentosa.

Exhibits in the physiology department included apparatus used at the medical school in the nineteenth century, including a chloroform balance of sixty years ago, and the first human electrocardiogram, both used by A. D.

Waller, F.R.S., in 1887.

On display also was a representative selection of antibiotics introduced since penicillin was developed commercially. The use of the electron microscope was also demonstrated to visitors.

In other departments were shown the making of whooping cough vaccine and the making of toxins and toxoids.

Attention was directed to a new method of preparing a diphtheria toxoid by adsorption on to aluminium phosphate gel. Known as P.T.A.P., the toxoid has recently been approved by the Ministry of Health for diphtheria immunisation in clinics and health cen-

The preparation of influenza virus vaccine, using the chick embryo, was followed through the stages of incubation of the eggs, inoculation of the embryo with the virus, and the extrac-tion, purification; concentration and inactivation of the virus before it is standardised and used for preparing the vaccine. A standard saline type of vaccine, available commercially, and a new type, emulsified in mineral oil, but at present on Medical Research Council trials only, were both shown in course of preparation.

#### DUBLIN FAIR TRADE COMMISSION

#### Inquiry adjourned until January 3, 1955

AFTER hearing evidence from representatives of more wholesalers and manufacturers on November 30, the Fair Trade Commission in Dublin adjourned its inquiry (see C. & D., November 27, p. 536) into the selling and distribution of "patent" and proprietary medicines, infant foods, and medicines cal and toilet preparations to January

Giving evidence at the hearing on November 30, MR. MICHAEL G. BAYNES (M. G. Baynes & Co., wholesalers, Dublin) said that retailers were expected to maintain fixed prices, because that was the custom. It was convenient and made matters easier for everybody. His firm's products (except those containing poison) were not confined to chemists. Replying to THE CHAIRMAN, MR. BAYNES said that it was advantageous to be on the approved list of the Irish Drug Association. The Chemists had a regard for the Association, thought that it looked after their interests, and naturally favoured those who were on its list.

Mr. Donal MacKenzie Laboratories, Ltd.) said that fixed prices had always been a tradition in the business. His company tried to relate the prices to consumer needs.

MR. J. J. McKenna (Crookes Laboratories, Ltd.) said that his company distributed their products through wholesalers, and insisted on fixed prices.

MR. R. H. G. Boys (Irish Chemical Products, Ltd., and the International Chemical Co.) said that his companies confined the supply of their aspirin product to chemists. When THE CHAIR-MAN asked if he did not consider that in rural parts aspirin could be handled by others than chemists MR. Boys replied: "There are so many chemists. I do not know of any village that has not got a chemist." CHAIRMAN: I think we could enlighten you on that. Would it not be convenient to have aspirin sold

not be convenient to have aspirin sold at grocers' shops at the cross-roads? MR. Boys: I suppose it would.
MR. W. Webb (Burroughs Wellcome & Co.) said that his firm did not advertise to the public. They devoted all their profits to medical research under the terms of the will of the founder, Sir Henry Wellcome.

MR. WESTCOTT PITT (Henry Bell & Co., manufacturers of medicinal and veterinary lines, Waterford, said that his firm did not insist on retail prices being maintained. His firm was established for about ninety years and sold to agricultural stores long before there were chemists. They then took on the chemists as well but had not given up their normal practice.

MR. J. Browne (James Browne & Co., Ltd., Dublin) said that his company had 200 agents for their toilet preparations in the country. CHAIRMAN: Why do you give your products to 200 chemists and keep them from the other 800 chemists? That is the policy of the house. It is not mine. I am the agent

carrying out that policy.

MR. R. KNIGHT (Hugh Moore & Alexander, wholesalers) said that his firm were not members of the Wholesale Drug Federation and did not insist on price maintenance.

MR. PEARSE GREY (May & Baker, Ltd.) stated that his company had never been approached by either the Wholesale Drug Federation or the Irish Drug Association with a view to introducing restrictive practices. The firm issued a price list for its pharmaceutical products and suggested that they should not be sold at less than the prices set out in the list.

#### PAMPHLETS GALORE

#### **Doctor's complaint at Dartford**

Some manufacturers sent out too many pamphlets and samples, said THE CHAIRMAN (Dr. M. J. Lindsey) at a joint meeting of Dartford Branch of the Pharmaceutical Society and Dartford Division of the British Medical Association on November 9. Dr. Lindsey exhibited a large box full of such advertising matter which he had received during the previous two months. Examination of the contents showed that some companies repeated their advertisements too often, and a few were not always in good taste.

DR. W. REVERSON (a general practitioner) said that annoying queries from patients were caused by variation in the size, shape and markings of tablets of the same drug from different sources, and standardisation would be very welcome. Since 1938 there had been an increasing torrent of new drugs which was often bewilof new drugs which was often bewildering to the general practitioner. He felt that many common illnesses could still be treated effectively by the older drugs. Mr. A. Howells (a retail pharmacist) said that it was not in the pharmacist's power to reduce the drug bill and his duty was to supply what the doctor prescribed. Doctors were read per capit, but pharmacists only paid per caput, but pharmacists only for the actual work they did. Although patients were prepared to wait in the surgeries they did not expect to wait at the dispensaries. Mr. Howells appealed to manufacturers to ease the appeared to manufacturers to ease the capital burden on the dispensing chemist by providing smaller packs of expensive drugs. In some areas the medical specialist was responsible for medical specialist was responsible for the prescribing of proprietary medicines and the general practitioner had to follow him. Dr. G. B. STRATTON (a medical specialist) said that short names for new drugs were very necessary as they were easy to remember and to write. Excessive and unethical advertising matter was being sent out by some firms, and the science fiction picture type of advertising should not be allowed. It was essential that the general practitioner should be warned against the toxicity and side effects of many new drugs, and the blunderbuss many new drugs, and the blunderbuss prescribing of haematinics and vita-min preparations was often unnecessary, expensive and confusing. Mr. D. J. Steel (a manufacturing pharmacist) said that the Briish pharmaceutical industry was important to the economics of the country and that export business was vital. It should be noted that recently 50 per cent. of new British Pharmacopæia drugs were British Pharmacopæia drugs were available only in proprietary form. In the pharmaceutical industry it was essential for further progress that a large proportion of the profits made should be spent on fundamental and applied research. The leading British pharmaceutical companies maintained a very high ethical standard of advertising sufficient to keep the prescriber informed of the properties and pre-parations of the newer drugs. Repre-sentatives of those companies were always well qualified and specially trained pharmacists who were available to help the doctor, and in his view a doctor who did not see them was doing himself a disservice.

#### LOCAL DINNERS AND DANCES

#### **DURHAM**

#### President's First Visit

WHEN Mr. E. A. Brocklehurst (president of the Pharmaceutical Society) attended the annual dinner-dance of the Durham County Branch of the Society on November 10, it was the first time that a president of the Society had visited that Branch. MR. BROCKLEHURST responded to the toast The Pharmaceutical Society," proposed by the mayor of Durham (Councillor Mrs. Blyth). Mr. G. W. Robson (chairman of the Branch) proposed the toast "The Visitors." The function was the first dinner-dance held by the Branch.

#### COVENTRY

#### 1.200 Million Prescriptions

SINCE the inception of the National Health Service, 1,200 million prescriptions had been made up in Great Britain, said MR. E. A. BROCKLEHURST (president of the Pharmaceutical Society) at the annual dinner of the Covenety) at the annual dinner of the Coventry and Warwickshire Branch of the Society, on November 25. Mr. Brocklehurst was responding to the toast to the Society, proposed by Mr. O. T. HALL (chairman of the Branch), who had given statistics for the prescriptions dispensed in Coventry and in the country of Warwickshire during the precounty of Warwickshire during the pre-vious year. There were 200 guests present, including the lord mayor of Coventry and representatives of the British Medical Association.

#### EDINBURGH

#### Pharmacist's Greatest Customer

THE pharmacist's greatest individual customer was the Minister of Health, was the Mational Health Service, said Mr. V. F. Noel-Paton (chairman, T. & H. Smith, Ltd.), proposing the toast of the Pharmaceutical Society at the annual dinner and dance of the Edinburgh and South-eastern Scottish Branch of the Society on November 24. Mr. Noel-Paton said that if a strong pharmaceutical export trade

were to be maintained, the government must recognise that they could not both eat their cake and have it. total cost of the pharmaceutical services was small compared with the full cost of the National Health Service. MR, E. A. BROCKLEHURST (president of the Society) responding, paid tribute to the Branch officers for the time and labour devoted to branch work. Dr. NEIL CAMPBELL (reader in chemistry, Edinburgh University) proposed the toast of the Branch, and Mr. F. J. D. McDougall (chairman of the Branch) replied.

#### PORTSMOUTH

#### **Two Council Members**

Two Council Members

THE Southern region was fortunate, said Mr. H. STEINMAN (vice-president of the Pharmaceutical Society) at Southsea on November 24, in having two representatives on the Society's Council; Mr. J. Dowty, Southampton, who was chairman of the Society's Law Committee, and Mr. J. C. Bloomfield, Portsmouth, who was "going to be a decided asset" to the Council. Mr. Steinman was speaking at the annual dinner and dance of the Portsmouth Branch, whose members he thanked for their continued efforts on behalf of Birdsgrove House. Dr. H. W. MALTBY (chairman, Portsmouth Division, British Medical Association), proposing the toast of the Society, spoke posing the toast of the Society, spoke of the excellent co-operation between the medical and pharmaceutical professions in the area. MR. L. J. CHAM-BERLAIN (Branch chairman) proposed the civic toast, and Councillor G. A. DAY (lord mayor of Portsmouth) responded.

"The Ladies and Guests" was proposed by Mr. J. C. Bloomfield (Branch chairman), Mr. J. K. B. Callow (chairman of the Bournemouth Branch of the Society), responding. During the evening bouquets were presented to Mrs. Chamberlain, Mrs. H. N. Griffiths (wife of the immediate past-chairman), and to the lady mayoress by Miss Shelagh Day.



GUESTS AT EDINBURGH DINNER: A group of the principal guests at the annual dinner of the GUESIS AT EDINBURGH DINNER: A group of the principal guests at the annual miner of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society (see above). Seated (left to right), Mr. V. F. Noel-Paton (chairman, T. & H. Smith, Ltd.), Mrs. Noel-Paton, Mr. F. J. D. McDougall (chairman of the Branch), Mrs. McDougall, Mr. E. A. Brocklehurst (president of the Society); standing (left to right), Mrs. Elliott, Dr. F. J. Elliott, Mrs. Brocklehurst, Dr. Neil Campbell (reader in chemistry, Edinburgh University), Mrs. Campbell,



#### BIRTH

EDWARDS.—At Whitehaven Nursing Home. Hove, Sussex, on November 29, to the wife of Godfrey Edwards, M.P.S., 38 Nevill Road, Rottingdean, Sussex, a son.

#### **MARRIAGE**

LUMB—WIKE.—At Bierley Church, Bradford, on December 4, Kenneth Lumb, M.P.S., Seremban, Malaya, to Nellie Wike, Langton Avenue, Bierley.

#### **DEATHS**

AUCHTERLONIE. — At Cranleigh, Surrey, on December 2, Mr. James Bickerton Auchterlonie. He is survived by his widow, Mrs. Alison Liddle Achterlonie, who qualified as a chemist and druggist in 1929.

BAYES.—At his home in Edgware, Middlesex, on November 15, Mr. James Austin Bayes, aged eighty-three. Mr. Bayes qualified as a chemist and druggist in 1899. After some years in Bletchley and Stoney Stratford, he took over a pharmacy at 25 Clifton Road, Rugby, in 1914. Five years later he was joined by a former apprentice, Mr. H. Cook, M.P.S., who became a partner in the business (and is the present owner of the pharmacy). Mr. Bayes retired in 1931 and left Rugby just before the 1939-45 war.

HUNTER.—On November 22, Mr. John Hunter, F.P.S., 455 Clarkston Road, Muirend, Glasgow, S.4, aged seventy-six. Mr. Hunter qualified as a chemist and druggist in 1900 and passed the Pharmaceutical Chemist examination in 1901.

MASON. — A memorial service for the late Mr. Harold Ashley Mason (C. & D., December 4, p. 566), at Grassendale Parish Church, Liverpool, on December 1, was conducted by the Ven. H. S. Wilkinson. Those present included: —Mr. I. V. L. Fergusson (chairman and managing director, Evans Medical Supplies, Ltd.), Dr. D. Riding, Mr. A. W. Kinnear, Mr. C. W. Robinson, Dr. F. S. Gorrill (directors); Messrs. J. F. Boucher, A. Baxter and J. M. Kirkness (representing the Association of British Pharmaceutical Industry); Mr. G. F. Woodward (May & Baker, Ltd.); Mr. W. L. Greig (The New Apothecaries Co., Ltd.); Mr. M. McClaren and Mr. N. A. Herdman (The Distillers Co. (Biochemicals), Ltd.); Mr. N. Marsh (Ayrton, Saunders & Co., Ltd.); and Mr. W. Bouch (Sangers, Ltd.).

MATTHEWS.—At his home, Markfield Lodge, Bournewood Drive, Bournemouth, Hants, on December 2, Mr. Harold Evan Matthews, F.P.S., aged seventy-nine. Mr. Matthews was a former member of the Board of Examiners of the Pharmaceutical Society. He attended the School of Pharmacy of the Pharmaceutical Society, taking four silver and two bronze medals before passing the Pharmaceutical Chemist examination in 1898. Subsequently he acquired a pharmacy in Clifton, Bristol. Later he founded there the firm of Harold E. Matthews & Co., manufacturing chemists. In 1920 it became a limited liability company

under the name Matthews Laboratories, Ltd. He remained governing director of that company until 1951 when he retired from business and the company was taken over by Fletcher, Fletcher & Co., Ltd. He is survived by his second wife, two sons (Dr. L. Harrison Matthews (director of the Zoological Society of London) and Sir Bryan Matthews, F.R.S. (professor of physiology, University of Cambridge)), and a daughter. His first wife (the late Mrs. R. S. Matthews) was one of the first women pharmacists and was sister of the late Lieutenant-Colonel E. F. Harrison, who was at the time of his death in 1918, Controller of the Department of Chemical Warfare in the Ministry of Munitions. He was in sole charge of research in connection with gas defence and of the manufacture of respirators for the British Army.

SWIFT. — On November 22, Mr. Stanley Swift, M.P.S., 31 Manor House Lane, South Yardley, Birmingham, 26, aged forty-seven.

TYMMS.—At Torbay Hospital, on November 24, Mr. Percy Tymms, M.P.S., 12 Redburn Close, Paignton, Devon. Mr. Tymms qualified in 1903.

#### **PERSONALITIES**

DR. F. S. GORRILL, who has been appointed deputy managing director of Evans Medical Supplies, Ltd. (see p. 593) joined the company as deputy medical director of the Evans Biological Institute in February 1951 and became production director in December 1951.

MR. WILLIAM STUART (a director, Chas. Pfizer & Co., Inc., U.S.A.) who is making his first trip to the United Kingdom to supervise staffing of his company's new plant at Folkestone for the production of Terramycin, attended the centenary celebrations at St. Mary's Hospital Medical School, Paddington, London, on November 30.

MR. W. A. POUCHER, F.P.S. (chief perfumer chemist, Yardley & Co., Ltd.) who

recently received the international gold medal award of the American Society of Cosmetic Chemists, is the first Englishman to receive that award, which was given for outstanding technical achievement

and service to the cosmetic industry. Mr. Poucher is a native of Horncastle, Lines, and practised as a consulting chemist in London before joining the staff of Yardley & Co., Ltd. Mr. Poucher was the first honorary member of the Society of Cosmetic Chemists of Great Britain. He is the author of several books, including the perfumery textbook Perfumes, Cosmetics and Soaps. He is an expert photographer, being a Fellow of the Royal Photographic Society. He is also a talented musician.

#### LEGAL REPORTS

#### Intention to Repay

At Basingstoke magistrates' court, recently, Thomas William King, 1 Jubilee Road, Basingstoke, admitted two thefts of 10s. each, and one of 9s., from Timothy Whites & Taylors, Ltd., Basingstoke. King had been trainee manager there for the past seven months. Through his solicitor he admitted having taken a total of about £12. He intended to repay that amount. Placing him on probation for two years, the chairman of the magistrates told King he was being treated very leniently. He was ordered to make restitution of 29s., the amount of the charges.

#### Sentence Quashed

At Aylesbury recently, Buckinghamshire quarter sessions appeal committee quashed a sentence passed by Aylesbury magistrates on a Glasgow animal medicine manufacturer in November. The company, Prophylaxis, Ltd., had been fined £80 with £50 costs on four summonses brought by Buckinghamshire county council of selling cattle medicines under a false description. Counsel for the county council said that trade descriptions claimed that four medicines in question would immunise herds against tuberculosis, increase resistance to mastitis and tuberculosis, build up the health of a herd, and improve milk output. Analysis showed that the medicines contained only sugar, and had no effect on certain disease cultures. Defending counsel said the medicines were a homeopathic remedy. The sugar acted as a carrier and contained an ingredient diluted to such an extent that it could not be detected by normal analytical processes. The chairman of the appeal committee said the committee felt that the council had not proved the claims false.

#### No Pharmacist on Premises

AT Highgate, London, magistrates' court, on November 24, Howard Thomas Rogers, M.P.S., 182 Stroud Green Road, N.4, pleaded guilty to six summonses brought by the Pharmaceutical Society. Two of the summonses were for selling poisons in containers not labelled in the prescribed manner. Four were for selling a poison not under the supervision of a registered pharmacist. Four other summonses were withdrawn. On July 28, the defendant's premises were visited by an inspector who sent a lady agent in to make test purchases. She bought some Metatone and Codis tablets. The inspector then entered the premises and asked for the defendant. Eventually he was told that Mr. Rogers had not been in that morning and that, in fact, he had not been there during the previous week. The inspector examined the records and called for the production of the National Health Service prescription forms that had been dispensed by the unqualified staff that day. There was no pharmacist on the premises and among the prescriptions he found two that called for statutory poisons. Defending counsel, said that Mr. Rogers, before going away on holiday in July, arranged with Mr. Robert Browell, M.P.S., 27 Crouch Hill, N.4

(about three minutes away) to visit the shop and be available on the telephone so that the dispenser could call him to the shop when prescriptions or drugs containing poisons had to be sold. The dispenser had not telephoned for Mr. Browell in the cases before the court because he knew the patients had been receiving those drugs on doctors' pre-scriptions before. The stamp was usually put on Metatone and Codis before containers left the stock room, but on that occasion the staff had not done it. Mr. Browell said that he visited the defendant's shop and checked all that the dispenser had ready and saw him hand them out to people in the shop. The chairman said the bench felt that Mr. Rogers had taken reasonable precautions, but it appeared that his instructions were not carried out entirely. He was fined £1 with 10s. 6d. costs on each of the six summonses.

#### Not Guilty of Drug Thefts

AT the Central Criminal Court, London, on November 24, Margaret Kathlyn Clarke, a nurse at Highlands Hospital, Winchmore Hill, London, N.21, was found not guilty of stealing a quantity of drugs from the hospital and the Recorder directed that she should be discharged. Miss Clarke, who had been sent for trial from the Enfield magistrates' court (see C. & D., September 18, p. 267), denied having stolen ampoules of Methedrine, pethidine and Phenergan. She was acquitted of being in unauthorised possession of pethidine. Two staff nurses gave evidence that 100 empty Methedrine ampoules, and one full ampoule each of pethidine and Phenergan, had been found in a linen bag inside a shopping bag in Miss Clarke's office at the hospital. The hospital pharmacist (Miss L. M. Kingston) gave evidence on the method of issuing drugs in operation at the hospital. A physician and a surgeon at the hospital gave evidence that they had been unable to detect any sign that Miss Clarke had taken drugs.

#### **COMPANY NEWS**

Previons year's figures in parentheses

EVANS MEDICAL SUPPLIES, LTD.—Dr. F. S. Gorrill has been appointed deputy managing director.

GENATOSAN, LTD. — Mr. N. L. Rigby has been appointed marketing manager and has been elected to the board.

WILLIAMS FRANCIS PHARMA-CEUTICAL PRODUCTS, LTD.—Net trading profit for year ended June 30 is £72,003 (£53,428). Net results have already been published (C. & D., November 6, p. 462). Current assets, £206,071 (£156,885).

ALLEN & HANBURYS, LTD.—A final dividend of 2s. per share, making a total distribution of 3s. 6d. per £1 ordinary share for the year ended June 30 (same) is recommended. Group net profit of the year, after all charges, including taxation is £83,573 (£72,116); tax charged, £106,842 (£123,448); net profit attributable to the group, £81,805 (£70,882); parent company profit, after taxation, £71,019 (£68,534); balance brought forward, £40,472 (£39,574); forward, £52,090 (£40,472).

#### IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) told Mr. N. N. Dodds on December 6 that the number of prescriptions dispensed under the National Health Service in England and Wales for the nine months ended September 30, was 160,057,142. The numbers for the corresponding periods of 1952 and 1953 were 160,322,768 and 163,553,240, respectively.

#### Aureomycin and Terramycin

MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) told Mr. N. N. Dodds on December 6 that an estimate of the increased cost to the Health Service of aureomycin and Terramycin could not be given until it was known how much prescribing of them there would be. It was to be emphasised that they were expensive and that the cost to the Exchequer of three days' treatment with either drug was of the order of The Minister was advised that there were dangers in the indiscriminate use of those drugs and that it was most important that they should, in general, reserved for the treatment of conditions for which they were known to be specially effective. Mrs. HILL asked if publicity on the last point would be given to the public because many patients thought that they were not being properly treated if they were not given the latest drug. Miss HORNSBY-SMITH: It is for the doctor to prescribe the drug that he considers necessary.

#### Levy Charges

MISS P. HORNSBY-SMITH told Mr. J. CARMICHAEL on December 6 that the approximate amount of charges for drugs and appliances paid by patients in England and Wales in 1953-54 was £6·7 millions. There was no separate information on the amount paid by old-age pensioners. The estimate for such charges in 1954-55 was £6·8 millions.

#### Telecobalt Units

MR. IAIN MACLEOD (Minister of Health) told MR. S. AWBERY in a written reply on December 6 that seven hospitals had been fitted with telecobalt units (see C. & D., November 27, p. 533) and several more were in various stages of planning and development.

#### Rating Revaluation

MR. R. ASSHETON asked the Minister of Housing and Local Government whether he was aware of the anxiety felt by traders and business interests about the basis of the current revaluation of property.

MR. D. SANDYS (Minister of Housing and Local Government) in a written reply on December 6 said that he understood that occupiers of shops and offices were anxious about the possible effect upon them of the revaluation of property, which was now proceeding in accordance with the provisions of the Local Government Act of 1948, as amended by the Valuation for Rating Act of 1953. That anxiety arose because shops, offices

and other premises were being assessed on present-day values, whereas dwelling-houses were being assessed on 1939 values. Industrial property although assessed on present-day values was partially derated. It was feared that that would throw an unfair burden on owners of commercial premises. The question of revising the derating arrangements was a wide problem that raised major issues of national policy. Special treatment had been accorded to houses because there had been no normal market in houses since before the 1939-45 war. It should not be assumed that the assessments of dwellings would not be increased. It was well known that in the past, local authorities had adopted widely differing standards for the valuation of various types of property. Now that all valuations were to be made on a national basis any such bias in favour of dwelling houses and industry would be eliminated. If fresh changes in the basis of valuation were now to be would inevitably involve further delay. That would prolong the countless anomalies that existed under the present system. As soon as the effects of the forthcoming revaluation could be fully measured the Government would review the position.

On December 7, seven further questions on rating revaluation were put to the Minister who referred the questioners to his reply of the day before.

#### Traders' Stocks When Tax Reduced

MR. H. BROOKE (Financial Secretary to the Treasury) told MR. K. THOMP-SON on December 7 that he would undertake to consider any further proposals put to him for avoiding financial hardships to traders when purchase tax reductions were made on stocks held and on which tax had been paid.

#### **Purchase Tax Changes**

MR. H. BROOKE (Financial Secretary to the Treasury) told MR. K. THOMP-SON on December 7 that the Chancellor was aware of the consequences to consumers, traders and manufacturers of uncertainty about purchase tax changes but he could not say more at present.

#### Technological Education

Replying to a debate in the House of Lords on December 7 on the need for full-scale technological universities, LORD SALISBURY (Lord President of the Council) read a statement made by MR. R. MAUDLING (Economic Secretary to the Treasury) in the House of Commons on December 6. The statement described the Government's plans for the "massive expansion" of the Imperial College of Science, South Kensington; for major developments at Glasgow, Manchester, Leeds and Birmingham; for fairly large-scale developments at Cambridge and Sheffield and specialised developments at other centres in the country including Wales, the more notable being at Edinburgh, Newcastle, Southampton, Nottingham and Swansea. In the Government's view, higher technological education must be closely linked with other university studies.

#### NEW PRODUCTS AND PACKS

Lambswool in Packets.-Geo. H. Lawrence, Ltd., Laurel Works, Sheffield, 3, have made available fine quality lambswool in small attractive packets. Sample and price list may be had on application.

Low-calcium Synthetic Milk. — Trufood, Ltd., Green Bank, London, E.1, are marketing a low calcium synthetic milk powder under the name Locasol. Locasol may be used to re-place completely the milk feeds in hypercalcæmia. On reconstitution with water it provides a milk in which the calcium content is not more than 100 mgm. per litre. Full information will be sent by the makers to any chemists who write asking for it.

Selective Weed-killer.—A new selective weed-killer—Tropotox—claimed to be non-toxic to clover, was shown by May & Baker, Ltd., Dagenham, for the first time at this year's Smithfield Show. The weed-killer contains 40 per cent. M.C.P.B. (4 chloro 2 methyl phenoxy butyric acid) and is recommended for use on corn crops undersown with clover and clover leys. It is packed in tins of 1 quart and drums of 1 and 5 gall.

Parenteral Coagulant and Plastic Dressing.—Ward, Blenkinsop & Co.,

Ltd., 6 Henrietta Place, London, W.1, announce the addition to their medical products of Noracin, a parenteral coagulant for controlling capillary and venous haemorrhage; and Penoflex, a non-inflammable plastic emulsion dressing which dries on the skin to form an antiseptic, adherent and almost transparent film through which normal exhalations of the skin may escape. Noracin is issued in a 10-c.c. rubber-capped bottle and Penoflex in a 15-c.c. plastic tube and 100-c.c. bottle

A New Haemostat. — The pharmaceutical division of Horlicks, Ltd., Slough, Bucks, have introduced a new haemostatic product Adrenoxyl (adrenochrome monosemicarbazone dihyochrome monosemicarbazone dihydrate), which has been successfully used in a wide range of medical and surgical conditions where the control of capillary bleeding was desirable, or capillary fragility was a feature. It is non-toxic and has no effect on coagulation or blood pressure. Adrenoxyl is presented in ampoules of 2-mils for intramuscular or subcutaneous injection, as tablets for oral administration. The name is the trade mark of Société des Laboratories Labaz, Brussels, Belgium.

#### TRADE NOTES

In Ample Supply.—Wright, Layman & Umney, Ltd., 42 Southwark Street, London, S.E.1, have ample supplies available of their coal-tar inhaler and vaporiser, both of which comply with Drug Tariff specifications.

An Advertiser's Announcement Corrected.—In an announcement by John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W.1, in the C. & D., November 27, the price given for Wyering and Proceedings of the Company for Wyovin was an incorrect purchase tax figure. The price of a 250-tablet pack is 19s., plus 4s. 9d. tax.

Translations into Oriental Languages. —Mr. Rafiq M. Khan, 40 Syon Park Gardens, Osterley, Middlesex, under-takes the translation of advertising and other literature into Turkish, Arabic, Persian, Urdu, Hindi, Tamil, Burmese, Malayan or Singhalese. Where necessary he can provide display lettering (for reproduction) in those languages.

Liurom

C.F. on - Phar-Carton. max, Ltd., Gravel Hill, Bexley Heath, Kent, have redesigned the cartons of Diuromil and Ralgex to include the C.F. symbol, as shown.

Suggestions Invited.—An invi-tation to chemists to send in suggestions for improving the service to customers for Cow and Gate

milk foods is made by the manufacturers, Cow & Gate, Ltd., Guildford, Surrey.

Pre-packed Cachous.—Thomas Guest & Co., Ltd., Carruthers Street, Ancoats, Manchester, 4, point out that for several weeks they have been mar-

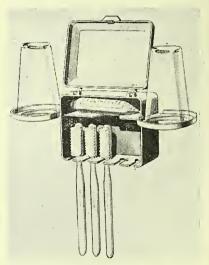


keting the transparent-lidded container of cachous illustrated. slide-lid box is sent out in outers of two doz. The cachous are also available in 1-lb. show jars. Distribution is restricted to chemists.

Available Now to Doctors.—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, announce that Nobecutane plastic wound dressing (since July 6 available to hospitals) is now being made generally available to the medical profession. Chemists and wholesalers are able to stock forthwith. For the present the only pack will be a bottle of 250 mils. A smaller bottle is being added shortly, and a spray container will be marketed early in

Intravenous Anaesthetic for Animals. -Imperial Chemical (Pharmaceuti-als), Ltd., Fulshaw Hall, Wilmslow, Manchester, announce that a new and improved formulation of Anavenol K solution is being released for sale on December 13. Anavenol K is an anaesthetic (intravenous) for cattle and other ruminants, and has been successfully used in horses. The new formulation is twice the strength of the old original Anavenol K suspension. It is a Schedule 4 poison and is presented in bottles of 250-c.c., tax free.

Two-headed Shaver. — The Swiss-made Richard high-precision electric shaver has two separate heads—a shaving head with self-sharpening shaving head with self-sharpening blade, and a clipper head for dealing with long hairs (trims moustaches, beard and back of neck, etc.). An a/c and d/c all-voltage commutator brush motor model and a 200-240-volt model are issued. The shaver is backed by national advertising and carries a twelve months' guarantee. Special terms are granted for a limited quantity of demonstration models. Trade inquiries should be sent to B. H. Ries, Ltd., 19 Hatton Garden, London, E.C.1.



cabinet manufactured by Novelty Toothbrush Industries (M/c), Ltd., 111 George Leigh Street, Manchester, 4,

Hands-of-the-Year Girl.-Finals in Hands-of-the-Year Girl.—Finals in a "hands of the year" competition organised by Lehn & Fink, Ltd., makers of Hinds honey and almond cream, were held at the Streatham Locarno on December 3. The principal judges were Miss Avis Scott (actress and television star); Miss Kate Don (television beauty expert); Mr. A. J. Black (managing director of the company); Baron (photographer); and Mr. Hugh Sinclair (stage and screen actor). The winner was Miss Anne Holland-Hughes, Manchester. For the finals fourteen area winners met in London as guests of the sponsors. They had as guests of the sponsors. They had a day out in London, and were entertained to dinner at the Stork Club. The aim of the contest (first held in this country) was to choose the woman with the loveliest hands. The competition was organised nationally in Mecca dance halls in England, Scotland and Northern Ireland.

Pack Change. — Genatosan, Ltd., oughborough, Leics, are now issuing the standard size Sanatogen in a glass jar similar to the one at present in use for the junior size.

Export Opportunities.—GORDON D. VINCENT, 409 Post Office Box, Auckland, New Zealand, seeks agencies for electric homogenisers or emulsifiers. S. A. TERAPEUTICA, Edificio Lafar, Av.

Principal y Calle Los Chaguaramos, La Castellana, Chacao, Caracas, Venezuela, seek to represent United Kingdom manufacturers of pharmaceutical ethical products and goods suitable for hospitals. Export-Import Converting Co., 601 Westover Road, Kansas City 13, Missouri, wish to buy 20-30 tons of hexachloroethane from a

prime supplier in Britain. Copies of any initial direct correspondence with those inquirers should be sent respectively to (1) the U.K. Trade Commissioner, P.O. Box 1476, 2nd Floor, Queens Arcade Building, Customs Street East, Auckland, C.I., New Zealand; (2) the Commercial Department, British Embassy, Edificio Titania, Plaza

Estrella, San Bernardino, Caracas; (3) the British Consulate, 922 Walnut Street, Kansas City 6. In any correspondence with the Export Services Branch, Board of Trade, Lacon House, Theobalds Road, London, W.C.1, the following references respectively should be quoted: (1) E.S.B./27978/54; (2) E.S.B./26121/54; (3) E.S.B./10327/54.

#### PACKAGING NOTES

Polythene Containers. — Fibrenyle, Ltd., 157 Dukes Road, Western Avenue, London, W.3, have added to Paperbox Co. (division of Robert Gair Co., Inc.) produced the carton, in which a perforated slot in one of





their Skylon range of unbreakable polythene bottles and jars 10-oz. and 12-oz. round bottles and wide-necked jars. The "fairy ball" Christmas line illustrated on right is available in four colours.

Automatic Bag - making. — The American Simplex automatic bag-making machines are being made in this country by Varley Pumps & Engineering, Ltd., Brentford, Middlesex, and sold through Charles E. Douglas & Co., Ltd., 86 Strand, London, W.C.2, exclusive sales representatives in the United Kingdom and Eire for the company's food and packaging machinery.

A U.S. Hexagonal Folding Carton.

—A novel hexagonal folding carton is being used by Vitaminerals, Inc., California, to package their vitamin



tablets. Two kinds of vitamin tablets are sealed into a long wide ribbon of transparent film, which is rolled up into a cylinder, which goes comfortably into a hexagonal outer. Angelus

the six side panels permits the ribbon of tablets to be withdrawn as used. Thus the carton need never be opened. Printing is in light and dark blue and yellow. The dispenser unit

keeps the tablets dust-proof, chip-proof and touch-proof.

Ampoule Cutting by Machine.—The basic requirement for fast automatic filling and sealing of ampoules is to supply ampoules cut cleanly to an accurate length. The Autopack ampoule-cutting machine has been filling that requirement for many years. To accommodate the increasing output speeds required by users today, the machine has been completely redesigned. The ampoules are rack-fed and rotated over a diamond that scores all round the neck, ensuring an absolutely clean break. The break is made by an automatic arm, waste glass being disposed of down a special chute, after which the edge of the ampoule is flamed to prevent chipping or powdering during storage or subsequent operations. Output speed is fifty to sixty ampoules per minute. Supplied with built-in motor, the machine is robust and efficient; it requires a minimum of attention. New features include a patented loading tray that enables the operator loading uncut ampoules to keep pace easily with the output of the machine. A delivery tray facilitates rapid removal of the cut ampoules from the machine.

# TOUGH, FLEXIBLE, ADHERENT, STABLE A synthetic resin and its properties

THE industrial uses of Epikote resins were demonstrated by the manufacturers, Shell Chemicals, Ltd., at an exhibition in London, December 6-11. Later, on a slightly smaller scale the exhibition is being restaged in Birmingham, Manchester and Glasgow.

The makers claim that Epikote resins enable coatings to be formulated according to an ideal specification—without sacrificing, for example, elasticity to secure hard wear or resistance to chemical action to secure flexibility. The Epikote resins are condensation products of epichlorhydrin and diphenylolpropane. At the exhibition practical demonstrations were given of the toughness and flexibility, adhesion to metals, and resistance to alkalis and other chemicals of finishes based upon them. A coated spiral spring, for example, that was expanded and relaxed without pause showed no break in the continuity of the coating. An abrasive surfaced "plane," drawn continuously backwards and forwards over a coated metal sheet was gradually wearing away the coating but had not penetrated to the metal after several thousand movements. A solution containing 20 per cent. sodium hydroxide was shown to have dissolved a metal foil though still remaining as a pool on the coating beyond. And so on. Displayed in groups at the exhibition were articles of household

and electrical equipment that had been coated with Epikote finishes, and a variety of containers showing their use in packaging. A striking example was a cylindrical container several inches long made at one stamping from metal coated before stamping; the coating was intact over the whole of the inner surface. The company's own detergent Teepol, once a packaging problem because its chemical properties inevitably promote corrosion, is now presented cleanly and aesthetically in coated cans. The coatings may be elastic enough to withstand the battering a collapsible tube receives in use, or resistant enough to suffer no damage from special fuels, lubricants, coolants, etc. Epikote resins are also entering into anti-corrosive paints for industrial use, and already one paint manufacturer is using Epikote resins in decorative enamels for domestic use. Technical literature is available from the company at 105 Strand, London, W.C.2.

#### **EXHIBITIONS & FAIRS**

THE Leipzig spring fair, mainly for technical exhibits, is being held from February 27 to March 9, 1955. The Leipzig autumn fair (accent on consumer goods) takes place September 4-9, 1955. At the fair held in September this year 977 exhibitors took part.

#### PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

#### REFORMULATION OF EDUCATIONAL POLICY

Subcommittee from all branches of pharmacy to do the work

AT a meeting of the Council of the Pharmaceutical Society, held in London, on November 30, the president (Mr. E. A. Brocklehurst) in the chair, MR. C. W. MAPLETHORPE (chairman of the Society's Education Committee) presented a report of a special meeting at which the Committee had agreed that pharmaceutical educational policy should be reformulated. A subcommittee would be appointed for that purpose consisting of Professors H. Berry and H. Brindle, Miss M. A. Burr, Messrs. H. S. Grainger and D. W. Hudson, Professor A. D. Macdonald, Messrs. C. W. Macfarlane and F. H. Oliver, and Professor J. P. Todd. It was thought that the matter should be approached in the broadest way possible, and the names chosen included those of four teachers, three retail pharmacists, a hospital pharmacist, a university professor of pharmacology with a long and close association with pharmacy, and himself as a manufacturer and chairman of the Committee. The subcommittee would submit its conclusions to the Education Committee, which would report to the Council. The Education Committee authorised the secretary to make arrangements similar to those of 1953 for a refresher course for teachers to be held at Cranfield, April 12-16, 1955. It was reported that discussions had already been held with the Ministry of Education on that subject, and that preliminary inquiries from schools of pharmacy showed that there would be considerable support for the course.

THE PRESIDENT welcomed as a guest at the meeting Mr. Alfred West (a member of the Pharmacy Board of New South Wales and member of the council of the Pharmaceutical Society of that state) who was visiting Britain. Mr. West, in his acknowledgement, said that he had already noticed that the members of Council were "gluttons for work," since they met both at night and in the daytime. In Australia they did one or the other, but not both. He conveyed the greetings of his Australian colleagues to the Council. It was resolved that a letter of congratulation be sent to Mr. G. H. Hughes on his appointment as an alderman of the borough of Colwyn Bay.

It was reported that a letter had been received from the British Empire Leprosy Relief Association requesting the support of the Society for an appeal to pharmacists on behalf of the fund for the cure of leprosy throughout the British Commonwealth. The letter stated that a cure for leprosy had now been established, but that for lack of funds, only ten per cent. of the three million lepers in the British Commonwealth had been able to obtain the treatment. The Association was the only society working directly for the medical treatment of that disease. The secretary was asked to consult with the Association on the best means of launching the appeal.

THE SECRETARY AND REGISTRAR reported that a picture of considerable historical interest had been presented to the Society by Allen & Hanburys, Ltd. It was a framed reproduction of several cartoons lampooning William Allen's third marriage. The President expressed thanks for the gift.

#### Invitation Accepted

A letter was received from the United Nations Association inviting the Society to become a sponsoring body of the United Kingdom Committee for the World Health Organisation of the United Nations. SIR HUGH LINSTEAD explained that the committee, with the inception of which the Society had been concerned, was intended to have the same relationship with the World Health Organisation as the United Nations Association had with the United Nations Organisation. There would be a similar body in every country in the world to canalise medical, dental,

and pharmaceutical support of the aims of the World Health Organisation. It was agreed that the invitation should be accepted.

MR. D. W. Hudson said he did not propose to stand as a candidate for election to the Franco-British Pharmaceutical Commission in 1955, and it was for that reason that he had resigned the chairmanship of the British section this year. MR. T. HESELTINE expressed appreciation of the work that Mr. Hudson had done in that sphere. The President said that that Franco-British activity had been a most important new undertaking by the Pharmaceutical Society, and its success up to now had been very largely due to Mr. Hudson and his chairmanship of the British section.

#### Conference Report

The report of the British Pharmaceutical Conference Executive stated that for the Oxford meeting of the Conference 461 persons purchased full books of Conference tickets and 26 persons purchased day tickets. The Executive agreed that a letter should be sent to the Oxfordshire Branch of the Society conveying the warm thanks and congratulations of the Executive for having made the Conference so successful. Preliminary arrangements for the Conference to meet in Aberdeen, August 29-September 2, 1955, were approved. The Executive appointed its chairman (Professor J. P. Todd), immediate past chairman (Dr. H. Davis) and senior general secretary (Mr. H. G. Rolfe) to serve on the editorial committee of the *Journal of Pharmacy and Pharmacology*.

The curator of the Society's museum reported the receipt of a gift from Mr. J. T. Whittles, London, of monkey skin aloes for addition to the museum collections. It was agreed that a letter of thanks should be sent to the donor.

The report of the Finance Committee stated that the chairman and the financial officer had attended a meeting called by the Law Society to consider further the Tucker Committee's report on the taxation treatment of provisions for retirement. A letter had been sent to the Chancellor of the Exchequer by the president of the Law Society, asking that a deputation should be received.

It was reported to the Establishment and Publications Committee that in agreement with the British Medical Association, the price of the National Formulary had been fixed at 5s. Interleaved copies would be available at 8s.

The Public Services Committee received the minutes of a meeting of the co-ordinating committee of the Society and the Guild of Public Pharmacists at which the published summary of the report of the Committee of Inquiry on the Hospital Pharmaceutical Services (see C. & D., July 27, p. 57) had been considered in detail together with the memorandum submitted to the inquiry committee by the Society, and further steps to deal with the matter agreed. The Council considered the reply received from the Ministry of Health to the Society's letter asking if the facilities for study leave offered in Whitley Council Circular No. P.H.17 (see C. & D., August 14, p. 152) could be extended to pharmacists in the general practitioner service (see C. & D., October 16, p. 400). The reply stated that the Minister had given careful consideration to the matter, but did not consider that he would be justified in present circumstances in providing financial assistance towards the cost of attendance at such courses. It was agreed that the Ministry should be asked for information on circumstances that would be regarded as justifying the providing of such financial assistance.

The Benevolent Fund and War Aid Committee's report showed that grants had been made to seven widows and

one member amounting to £224 18s.

The warden's report stated that in the month to November 1954, there had been forty-eight guests at Birdsgrove House for an aggregate of sixty-two weeks, against forty guests and sixty-three weeks in the same period of 1953. A total of £37 9s. was received from guests to supplement weekly payments. One gift of books had been received MR. J. C. BLOOMFIELD reported that the Southampton, Portsmouth and Bournemouth Branches of the Society had agreed to adopt the room at present known as Somerset and had asked that the room should be renamed Wessex.

In accordance with the prescribed procedure, the secretary and registrar reported upon the result of the notification of the Council's intention to make changes in the bylaws. The Council passed the following resolution and authorised the sending of a sealed copy to the Privy Council

for approval:

That the Bylaws should be amended in the following manner:—In Section II, Bylaw 2, line 18—delete "or the Channel Islands or the Isle of Man." In Section VI, Bylaw 5, line 4—delete "one hundred" and substitute "thirty."

It was reported that Mr. J. Moore had been appointed chairman of the co-ordinating committee of the Society and the Guild of Public Pharmacists for the ensuing year. It was reported that since the last meeting sixty-three persons had been registered as students making a total of 884 in the current year, against 799 in the corresponding period of 1953. Applications from six pharmacists for registration under reciprocity arrangements with overseas countries were approved. It was also reported that the names of eleven former members of the Society had been restored to the Register, and the Council approved a recommendation from the Law Committee that the names of three persons whose names were removed more than ten years ago should be also restored. Two addresses removed from the Register of Premises were restored on payment of the prescribed fees and penalties.

The Law Committee's report showed that in October 1954 the Society's inspectors and agents visited 1,283 authorised sellers, thirty-five listed sellers, and 490 drug store proprietors and similar traders. Five cases of alleged infringements of the Pharmacy Acts were considered.

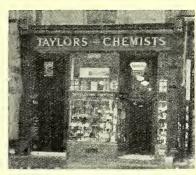
Payments amounting to £4,150 by the secretary and

£23,847 by the treasurer were approved.

The Society's House is being closed from 5.30 p.m. on December 24 until 9 a.m. on December 28. Birdsgrove House is being closed from December 21, 1954, to January 7, 1955.

# WINDOW DISPLAYS UNNECESSARY?

A bold experiment in a London shop
with mainly a "passing" trade



HEN it was decided to modernise the pharmacy of Timothy Whites & Taylors, Ltd., at 155 Praed Street, London, W.1, the company's architectural department drew up plans that were a break from custom. Taking into account that the shop was situated in a busy thoroughfare and much of the trade of the sort known as "passing," they laid emphasis on attractive appearance and quick service. The result is worth studying.

Below the facia, the shopfront is entirely of glass. There is no conventional shop window, the whole shop being on display. The main counter comes forward to the glass. Its end is fitted as a display case, and merchandise is also decoratively arranged on top of that end of the counter so that it



can be seen from the street. Apart from that, there is no window display. On the opposite side of the shop and next to the entrance a wall case penetrates the shopfront and continues outside the shop. The part of the case external to the shop is bronze-framed. All other metal fitments in the window are of bronze also. The slight angle to the pavement at which the window is set invites the passer-by to incline his way to the entrance and so inside.

There, the woodwork is in light oak, except for a door to the dispensary at the rear of the shop and a panel that balances that door on the opposite side of the glass-fronted

dispensary. Both of those are in dark walnut.

By incorporating a passage that formerly led to flats above, the designers have widened the shop. The flats are now used as staff and stock rooms. To give an effect of width, a false ceiling has been fitted some distance below the original high ceiling. The "slide-away" type sunblind, which has no arms to obstruct the pedestrian's view of the shop, is housed between those ceilings.

The main counters down the side of the shop, away from the door, are all of "quick serve" type, selling being done from the stock arranged in the partitioned top of the counter. By cutting a recess in the wall fixture opposite the main counters, it has been possible to introduce, on the other side, without unduly restricting movement of customers in the shop itself, a small additional counter with serving assistant. The recess is suitably mirrored and carries narrow display shelving.

The fully-equipped dispensary has white enamelled cupboards and shelving and benches topped with laminated

plastic.

On the frieze are merchandise signs illuminated from behind by lamps set in recesses. The signs themselves are fitted in slides and can be moved for replacement of the lamps. The flooring is of thermoplastic tiles. Everything, in fact, contributes to an effect of brightness and space.

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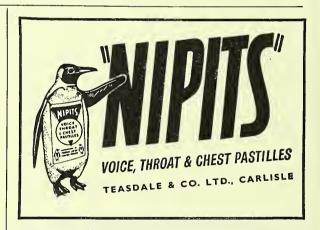
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#### Two Voices

MANY people interested in the welfare of patients under the general medical and pharmaceutical services are concerned at a lack of consistency in official pronouncements on the prescribing of proprietary medicines. On the one hand the doctor's freedom of prescribing is proclaimed by the Cohen Committee by Sir John Charles and by the Minister of Health himself. On the other hand the idea is being repeatedly paraded that certain products should not be prescribed, or should be prescribed only if the manufacturer's price is officially approved. The two views are irreconciliable and only one is right.

It must be admitted that the conflict originates within the Cohen Committee itself. Paragraph 4 of the Committee's second interim report made it clear that the findings were recommendations only, and that there should be no absolute restriction on the prescribing of any drug or preparation which a doctor thought necessary for an individual patient. Paragraph 12, however, recommended that preparations in categories 2, 3 and 4, should be prescribable only subject to . . . "satisfactory arrangements for price." Logically that can only mean that, should the Ministry of Health not accept a manufacturer's price for a preparation, it may not be prescribed. The dichotomy of outlook has been apparent in official utterances ever since the issue of the interim report, but more especially since the Treasury and the Public Accounts Committee began to intervene more heavily in determining prescribing policy. Only last month the Minister of Health, addressing the Association of Executive Councils, himself spoke with two voices. He laid down in unexceptional terms the freedom to prescribe. Then he used words meaning that price arrangements must be made and agreed before certain products should become prescribable from the public purse. He was "absolutely determined" not to treat lightly manufacturers making those preparations.

As is well known, it is the view of the medical profession that the freedom of the doctor to prescribe what he considers best suited for the patient is fundamental. It cannot be limited without damage to the patient's welfare and the future of the Service. That point of view is presumably shared by the medical advisers of the Ministry. That extravagance in prescribing exists we agree, but the return to full pricing in selected areas makes it again possible for lists to be prepared showing the prescribing costs of each doctor and comparing them with the costs of the other doctors in the same area. Those whose overall prescribing is, prima facie, excessive, can be pin-pointed, and a

detailed analysis made of frequency, quantities ordered, and the use of medicines that are unnecessarily expensive for the end in view (they may be expensive proprietaries or they may be standard drugs ordered in a wasteful manner.

Unfortunately, it is becoming clear that, within the Ministry of Health and the Treasury, there is a school of thought which holds freedom of prescribing to be incompatible with a National Health Service. The people who hold that view would restrict doctors' prescribing by drawing up "black" or "white" lists, and would tell manufacturers what they may or may not make.

Many of us may share the Ministry's dislike of certain preparations while still feeling that a policy of restriction will prove a greater evil than the one it seeks to cure.

Extravagance should be the object of attack, and the extravagant prescription the starting point for action. Depriving the prescriber of the opportunity to exercise responsible choice, and the manufacturer of freedom to make products on which that responsible choice may be exercised, are both acts toxic to the ideal of a National Health Service: a community eventually freed from ill-health.

#### Christmas Boxes and Tax

A concession by which Christmas gifts to employees of National Savings certificates or stamps were not taxed no longer operates. It was withdrawn in accordance with an announcement by the Chancellor of the Exchequer just before Christmas 1953. Replying then to a Parliamentary question, Mr. Butler said that the conditions that justified the concession during the 1939-45 war and in the immediate post-war years no longer existed, and that it would be withdrawn in 1954. With Christmas again approaching, readers may welcome a brief review of the tax position as it affects gifts and benefits to employees.

Benefits to an employee, including benefits in kind, are allowable expenses against business profits if they can be regarded as incurred wholly and exclusively for the purpose of the trade or business. For the employee, any gifts, benefits and advantages conferred are, as a general rule, assessable income if they are in the form of money or money's worth. It has been declared that an employer cannot be prevented from making a gift tax-free to an employee, but unfortunately a generous employer may find that to do so is in fact more difficult and tricky than it might appear to be. A "benefit in kind" (for example, free supplies of some commodity) is an advantage not of money or money's worth, and as such remains untaxable. A gift in the form of shares is money's worth, and cash allowances to employees to enable them to buy goods, etc., are not benefits in kind. A bill settled by an employer is interpreted as being paid on behalf of the employee; the transaction would be equivalent to the payment of money, and its value would be taxable as arising out of the employment or office. An employee is, of course, entitled to claim for expenses incurred necessarily in the course of employment, and would not be required to pay tax on an allowance in lieu of uniform or clothing for use in carrying out his job. As to food, the Chancellor has given the assurance that "if no canteen were available and an outside restaurant were used, and part of it were set aside for holders of meal tickets, or all of the staff went to a particular restaurant on meal vouchers, that would be regarded as a canteen. On the other hand, isolated meal tickets that could be taken to any restaurant over a large area would not be covered." The value of isolated meal tickets is therefore subject to tax.

It has become a practice for employers to make awards to employees who introduce ideas of advantage to the business. A single and reasonable payment for such a contribution would not be subjected to tax unless it were part of the regular duties of the particular employee to formulate such ideas or make suggestions of that character.

Free board and lodgings are a true example of a benefit in kind. If, however, the employee's pay were increased, and a charge made for board and lodging, he would at once become assessable to tax on the increase, even though it might be only notional and he might be compelled to "live in." As to rent-free premises, the employee is not taxable where he is not legally the occupier of the premises; there is all the difference between living on the premises and having the occupation of a rent-free house, whether the right to sublet exists or not.

A gift to an employee, whether in cash or in Savings

Certificates, is to all intents a bonus, and chargeable for tax on the person who receives them. That the employer may not wish the bonus to be considered as remuneration is irrelevant. Some employers formerly made a practice of making gifts in kind to employees at Christmas time. In 1953 and for some years immediately preceding it, suitable goods may not have been obtainable, and Savings Certificates were given instead. Where that happened the tax authorities, under a concession not provided for by statute, refrained from charging tax upon them. The scarcity of goods no longer exists, and the Inland Revenue has accordingly withdrawn the concession. At no time, it should be noted, was the concession enjoyed by employees with emoluments (inclusive of benefits) totalling £2,000 or more per annum, or by directors, whatever their earnings: all sums and benefits put at their disposal, in kind or otherwise, have, since the Finance Act, 1948, been returnable by them for income-tax purposes.

Where an employee has an income from which tax cannot be deducted (for instance, from Savings Certificates) his code number is adjusted to take in the liability for them, and the employer is required to make a return showing any such items at the end of the income-tax year.

## CORRESPONDENCE

#### PROFFERED HELP APPRECIATED

SIR,—May I, through your columns, express my sincere appreciation to all members of the trade who have so considerately offered assistance following the recent fire at our works. I am glad to be able to say that there is no longer any hold-up in production, and that normal deliveries are again in progress. Warm thanks to all who have been so understanding during the past few days.

LONDON, E.1

JAMES H. CLAYTON,

Chairman and
Managing Director,
HARKER STAGG, LTD.

#### A PROBLEM SOLVED

SIR,—The article you picture on p. 576 of the December 4 issue of the C. & D. is a bullet mould, for producing hollow-base lead bullets. I have used similar moulds, in various calibres, for many years past, both for muzzle-loading rifles and for revolvers. As a point of interest, I was for many years a keen member of the National Muzzle-loading Rifle Association of America, but that hobby, together with several other hobbies, has had to "go to the wall," of late, owing to pressure of business.

DEVIZES, WILTS

RAYMOND N. BIRT, M.P.S., F.S.M.C.

SIR,—I observe with interest the "curious instrument" illustrated in Onward from Galen (C. & D., December 4, p. 576). It reminds me strongly of a device used in the early years of the revolver pistol for the purpose of casting shaped bullets in the field. No indication of scale is given in the illustration, so that the bore of the "bullet" cannot be deduced. Reference to the officials of one of the well-known armoury collections would doubtless confirm or deny this suggestion. A medical friend suggests that the device was used to prepare objects called "noxae," consisting of small masses of compressed gunpowder, which were at one time used in the blistering technique of counter-irritation.

STOKE-ON-TRENT

J. L. SMITH

#### **FINANCE**

SIR,—Like many more chemists I must wonder at the financing of the National Health Service. Are we agents in the cause of health or are we helpless catspaws whose chief task is to make dividends for shareholders of pharmaceutical cartels, most of whom have never studied a chemistry book in their lives? The Ministry of Health itself continually stresses money and cost rather than health. There are, say, 100 bottles of aspirin tablets in a community of 100 per-

sons, but only fifty vouchers (money). It follows that fifty persons who may require them have to do without. Every week I stick a stamp on a card to guarantee myself food and sickness benefit in some future time. Whether I receive them depends on the humanity of people living then, and the actuality of the food position at that time. Nature saves from harvest to sowing time. Real saving can only be obtained by surplus seeds, and only for so long as they can be effectively preserved. Money saving is illusory. In effect the financiers say the needs of the sick are limited by money, not by the available supply of medicaments. When the sick financier goes to the medical man and the chemist he expects humanity, altruism and honesty of purpose, but when the chemist or doctor goes to the financier he is met with "Oh! But this is business!" Could it not be arranged that all pharmaceutical cartels should have on their boards representatives of the British Medical Association and Pharmaceutical Society? Or that the Government should guarantee the shareholders 5 per cent. and distribute the rest of the 20 per cent. they seem to demand between the B.M.A. and the Society?

A. C. HOSSACK

# Onward from Galen A CURRENT CAUSERIE

What may be termed scientific sidelines are sometimes quite serious features of a pharmacist's business—for the retailer's activities go far beyond the duties of compounding and dispensing. There is always some argument about what a pharmacist should or should not sell over his counter. But as he has had a scientific training I consider that it is quite appropriate for him to stock and sell any commodities allied to his main business and with a scientific basis. For example, it is quite a proper occupation for him to compound face cream and powder though I fear little is done in that direction now photographic goods again are quite the chemist's own lines. For the pharmacist in the more rural areas there is a market for agricultural and horticultural products which, if he has the necessary flair, he can develop into a substantial business. Personal standards for the class of business to be undertaken vary considerably, just as personal tastes vary; but any pharmacist who supplies the public with something good in itself, does a good work in a professional manner.

# THE MARKET FOR SUNSHINE

By R. H. BECKETT, B.A.

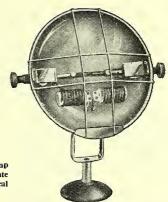
HERE is an old Italian proverb Dove va il sole non va il medico (Where the sun enters, the doctor does not go), and there is a strong feeling that, where the sun does not enter, the doctor is likely to be a frequent visitor.

While medical and scientific opinion appears to be divided on the point, there can be no doubt that a large section of the general public is convinced that the deplorable weather we have experienced during the past summer is likely to bring about an increase in minor ailments during the coming winter, and that a good way to make up for the lack of summer sunshine is the regular use of an artificial sun lamp. For that reason an unusual demand for such appliances has been created, strengthened by pronouncements by medical correspondents in a number of national and local newspapers. Since the majority of sunray lamps are sold today against medical prescriptions, it is apparent that a large number of general practitioners must be of the opinion that some compensation for the lack of sunshine is required.

The precise effect of sunshine, particularly the vital ultra-violet portion of the spectrum, upon the human body is by no means completely understood. It is well known, of course, that certain sterols in the skin are converted by ultra-violet rays into vitamin D, which is then absorbed into the system, where it plays its part in regulation of calcium metabolism. It is also a common experience that ultra-violet rays, if administered in sufficient quantity, produce an intense superficial vasodilation or erythema. It has been estab-



High-pressure mercury-vapour type ultra-violet lamp, stand version (Hanovia, Ltd.). Sollux infra-red prescription lamp, stand version (Hanovia, Ltd.).



Sol-tan arc-type ultra-violet lamp for sale without doctor's certificate (London Commercial Electrical Stores, Ltd.).

lished that there is consequently an increase in both red and white blood corpuscles, and that there is a transitory lowering of blood pressure, particularly marked where that is initially high. It seems probable also that there is some direct effect on the superficial nerve terminals, but the process is not yet sufficiently understood.

Notwithstanding the proven physical effects of ultra-violet rays, there are the sceptics who insist that the beneficial effects of sunlight, whether natural or artificial, are purely psychological. If that were so, it would still provide in many instances a sufficient case for the administration of ultraviolet light, since it has become an accepted part of the philosophy of our civilisation that sunshine increases wellbeing, and that lack of it produces depression, which in its turn leaves the system open to more tangible ills.

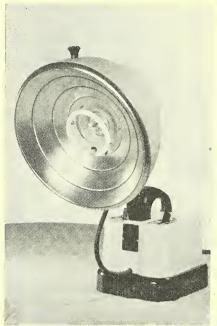
Well-being is something it is not possible to define to the satisfaction of the scientific mind, but it is nevertheless an extremely important factor in our daily lives. The regular use of a sunlamp, particularly after a bad summer, can undoubtedly produce, whether by physical or psychological means, or by both, a marked improvement in the well-being of the user.

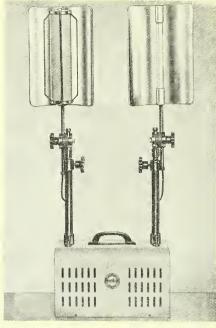
The retailing of appliances such as sunlamps has been shared for many years between the electrical dealer and the chemist, with the larger proportion of business probably going through the hands of the former. Since, from the point of view of construction, a sunlamp is essentially a piece of electrical apparatus, that is not surprising. From the point of view of application, on the other hand, the sunlamp is essentially a health appliance, and as such becomes very much the province of the chemist. An increasing number of retail chemists are showing an interest in this profitable line.

#### Which Lamp to Sell

Several competitive sunlamps are on the market. Before deciding to stock a particular brand, it is as well to know something of their general characteristics. In the first place, it must be borne in mind that no artificial source produces radiation exactly comparable to that of the sun itself. Since we are concerned principally with the production of ultraviolet rays, a lamp is required that produces them in sufficient abundance to bring about the required photobiological effects with a reasonably short exposure, and with minimum cost in the way of current consumption and replacements.

Ultra-violet radiators manufactured on a commercial scale fall into three main classes. First there is the CARBON ARC. The spectrum of this lamp approximates fairly closely to that of natural sunshine, but it has certain disadvantages. The proportion of ultra-violet radiation to that of visible ultra-violet and infra-red is small, with the result that long exposures are necessary. To produce sufficient ultra-violet radiation from a carbon arc to be of any real value, it is necessary to pass a current of the order of 30 amperes, which means that the apparatus would be cumbersome and completely unsuited for domestic use. The constant necessity of replacing carbons makes the lamp expensive to maintain.







Left: High-pressure mercury-vapour type ultra-violet prescription lamp, table version. A similar lamp having in addition a quartz emitter for infra-red is also available (Hanovia, Ltd.). Centre: Twinray low-pressure mercury-vapour type ultra-violet and infra-red lamp outfit, tubular model for full body baths (Perihel, Ltd.). Right: Sollux infra-red prescription lamp, table version (Hanovia, Ltd.).

The LOW-PRESSURE MERCURY-VAPOUR DISCHARGE LAMP consists of a lamp fitted with a quartz tube, in which a high-voltage discharge is made to pass through mercury vapour. The output is rich in ultra-violet rays, but the rays are of a wave-length that does not occur in natural sunshine. They produce an erythema (sunburn) with a short exposure, but prolonged use may be antagonistic to the production of vitamin D. For that reason, such sources are, in medical application, usually restricted to special uses.

The HIGH-PRESSURE MERCURY-VAPOUR LAMP is a powerful and convenient source of ultra-violet radiation with a broad spectrum, and is universally employed in hospitals and welfare clinics. It is the source most doctors would recommend to their patients for use at home. Its erythema-producing power is high, and its efficiency in the manufacture of vitamin D will be appreciated when it is realised that it is the source employed for the commercial production of calciferol. The lamp is clean in operation, and the running costs are negligible.

#### Infra-red Lamps

Infra-red lamps have for long been popular with retail chemists, even those who have not handled ultra-violet lamps. There is, however, much confusion in the public mind regarding the different purposes of the two lamps, and the infra-red lamp is often incorrectly referred to as a sunlamp. The difference between ultra-violet and infra-red rays can be summarised as follows. Ultra-violet rays are photochemical in action; the immediate effect is upon the skin, but most of the benefits are latent and affect the whole system. Infra-red rays are a physical agent and their effect is local and immediate. They are used for the relief of pain in rheumatic conditions and injuries, and assist the elimination of waste products of infection. With ultra-violet rays, short exposures are the rule. With infra-red, long exposures are necessary if any benefit is to be obtained.

The retailer should fully understand and appreciate the difference between the various types of lamp available, and should know their capabilities and limitations. It is important for the chemist to make sure that he understands exactly what the customer needs before trying to sell him any equipment, but, since most lamps of this kind are sold only against medical certificates, in a case of doubt the matter should always be referred back to the doctor.

#### How to Sell Sunlamps

It is important to know the product one has chosen to stock, and to use it oneself so as to be able to speak with conviction when questioned about it. The manufacturer's literature should be fully informative as to the lamp's use and its effects. Other good rules are to co-operate with the manufacturer in any publicity campaign he may be launching; talk to local doctors and encourage them, if they do not already do so, to sign the necessary medical certificates; keep a lamp in stock; and keep it well displayed as a constant reminder to the passer-by on cold and foggy days, that here is a means by which he can regain the vitality which an English winter so quickly takes from him.

#### DUET FOR TWO HEADS

(With apologies to the old song "Gallagher and Sheen" and the manufacturers concerned.)

O Mr. G.! Yes, Mr. H.?

I see you've launched a new shampoo as well.

Though our campaigns coincide, Still the market's very wide,

It gibbs the scope for both of us to sell.

But Mr. G.! Yes, Mr. H.?

The name I think is not a happy choice.

Do you know what it conveys To the advert, reader's gaze?

Silky softness, Mr. H.? Mending stockings, Mr. G.!

O Mr. H.! Yes, Mr. G.?

I agree the market's big enough for two, If you hudnut brought one out Someone else would there's no doubt After all, there are already quite a few.

But Mr. H.! Yes, Mr. G.?

Do you think that your description of it's wise? Now, for instance, are you sure

What the public think it's for? Giving lustre, Mr. G.?

Making omelettes, Mr. H.!

J. J. HAYTON

# PHYTOPHARMACEUTICAL PRODUCTS

#### The pharmacist's part in their distribution

PROFESSOR G. VALETTE (professor of pharmacodynamics, University of Paris) addressed a meeting of the Pharmaceutical Society in London on November 8 on "The Rôle of the Pharmacist in Phytopharmacy in the Present and the Future." He was introduced by MR. C. W. MAPLETHORPE (a member of the Society's Council) who said that education of the pharmacist had not kept pace with developments in agricultural and horticultural chemicals and that the Council had thought it desirable that the position should be reviewed and that the experiences of French colleagues would be most useful in showing how the pharmacist fitted into the picture. The following is an abstract of Professor Valette's address.

#### How it Started

The problem of protecting cultivated plants from attack by pests and parasites (insects and fungi in particular) arose many years ago in France after a succession of epiphytic diseases which involved, in turn, the destruction of the European grapevine by oidium and phylloxera (1860), potato blight (1878), and more recently, infestation of the potato crop by the Colorado beetle.

Chemical agents for the destruction of parasites form the armamentarium of phytopharmacy, and comprise, in fact, about 30,000 natural or synthetic products that may be grouped into insecticides, fungicides, virus destroyers, weedkillers, bird destroyers, and rodent killers. Phytopharmacy may be defined as the study of substances that can be used against the parasites of cultivated crops and produce of vegetable origin.

In France the Crop Protection Service is divided into twelve areas, each area extending over from eight to ten Departments. That Service institutes compulsory protective measures, and controls the movement, in or out, of fruit and vegetables. In every Department the agricultural Service maintains a number of information centres which warn agriculturists and horticulturists of the appearance and spread of parasites throughout their area, and, through the Press, by posters and by wireless, tell growers what to do and when to apply treatments. Interested parties in the communes have formed groups. There are also intercommune groups that ensure a fair degree of co-ordination of effort, and which also provide the authorities at Department level with reports on the health of crops. Any person who has an interest in plant protection can belong to those groups, and among such persons, in our opinion, first and foremost are pharmacists.

The pharmacist's knowledge of botany, zoology, and toxicology can be used in the recognition of a parasite and of the damage it causes, in indicating the lines of treatment, in giving warning of the dangers that infestation may bring, and in advising on the methods of preparation and the application of insecticides or fungicides. At first the desire of French pharmacists to associate themselves with the work was opposed by the authorities. The Minister of Agriculture, quoting the Law of September 11, 1941, which reserves to pharmacists only the sale of "medicaments intended for use in human medicine," held that the sale of products for the treatment of plant diseases was forbidden to them. That opinion was nullified by decree in December, 1943, when a list of substances proper to pharmaceutical retail practice included phytopharmaceutical products. A pharmacist has also the sole right to sell baits containing the most poisonous substances.

The pharmacist, however, claims no sales monopoly; and would be hard pressed to find storage space for the quantities of insecticides and fungicides necessary for a holding of a few dozen acres. In fact, trading in poisonous substances for use in agriculture may be carried out by any one who makes a statutory declaration. Pharmacists are exempt from that formality, their diploma taking the place of the declaration.

Officials of the Ministry of Agriculture are few, and agriculturists and their syndicates seldom have the knowledge that tells them what chemical products are to be used. At present there are in France about 9,000 rural pharmacists, who, if they wish to turn to good account their knowledge, have a worthwhile job. "Without wishing to minimise the pulling power of the printed word and posters," said Dr. Rolland (president of the Conseil National and the Ordre National des Pharmaciens de France) "I think that it should not be forgotten that direct and permanent contact with the general public should also be counted on for health education and propaganda." As long ago as 1933 Professor Perrot called the attention of the pharmaceutical profession to the trend of methods of plant protection, and to the dangers which could ensue from the haphazard use of toxic substances. Three years later representatives of several of the faculties of pharmacy, and delegates from the druggists' and retailers' syndicates, formed the Professional Association of Phytopharmacy (A.P.P.) of which I am president. The Association organises one meeting a year, issues a bulletin and publishes leaflets on crop protection.

#### A Certificate in Phytopharmacy

Supplementary courses of instruction have been organised in Paris, Montpellier, Strasbourg, Marseilles, Toulouse, Lille, Rennes, Tours and so on. The pharmaceutical Press has shown its interest by publishing articles on phytopharmacy, and the Faculty of Pharmacy of Paris places at the disposal of all practitioners a collection of parasitic insects and a service of identification of specimens. The war caused those activities, in part, to be suspended; but in 1945 the Faculty of Pharmacy of Paris instituted a supplementary certificate in phytopharmacy. This year twenty-five to thirty qualified students are attending the course. On the commercial side, a limited liability company, Physa, was formed in 1947 with capital subscribed from pharmaccutical sources, which sells only to members of the pharmaceutical profession. Finally, a movement was started some two years ago under the U.T.I. (Unions Techniques Intersyndicales) with the object of attracting pharmacists to phytopharmacy. The technical unions brought together, regionally, those pharmacists who wished to perfect themselves in veterinary pharmacy, phytopharmacy, cosmeticology, dictetics, optics, surgical appliances and so on. The movement, which started in the West of France (Normandy and Brittany), spread rapidly, and its activities now extend over twelve regions. The centre of activity is the sector reunion, held every three months, when the twenty to twenty-five pharmacists in that sector meet to hear a paper read by one of them on a subject chosen in advance and accompanied by demonstrations and practical work. That movement, supported by enthusiasts, represents without doubt the defence reaction of a profession that is seeing its privileges and liberal character slowly disappearing before the advance of the pharmaceutical speciality and the tightening of the stranglehold of administrative regulations. It is still too early to gauge the results, but it would be wrong to discourage younger pharmacists from working in common or to dissuade them from their desire to stimulate professional initiative.

The method adopted to teach this new technique to pharmacists must be examined more closely. In October every year a course of instruction, theoretical and practical,

lasting a fortnight, is held in Paris. In that short time the young pharmacist cannot be taught everything he should know but it is difficult for him to be away from his pharmacy for more than a fortnight. Sudents are advised, therefore, to read in advance the fundamentals of the theory. By so doing, they can give the best part of the fortnight's instruction at the Faculty to experimental and practical work. The teaching covers the four main subjects—entomology, botany of the cryptogams, toxicology, and how to apply anti-parasitic treatments. In each subject there are from three to five lectures and from three to five sessions of practical work. In the practical work on entomology and on the cryptogams, students observe and recognise parasites from their macroscopic and microscopic morphology, and study the nature of the damage to infected tissue. In toxicology, students learn to identify and estimate by chemical means inorganic and organic poisons. Finally, the study of antiparasitic treatments teaches them the methods of application. Study is accompanied by demonstrations of how apparatus works, and of the preparation of mixtures (powders, sprays, suspensions, emulsions) generally used in agriculture, and of the use of wetting agents and detergents as spreaders.

Six months after the end of the course of instruction, that is, in the following May, the students sit their examination, taking in each of the four subjects a written paper and a practical examination. To every successful candidate a supplementary certificate in phytopharmacy is awarded. Similar courses of instruction have been organised in other faculties and at other schools of pharmacy. They attract a fairly large number of students, so that each year fifty to sixty pharmacists seek to specialise in that way. To instruction at University level must be added numerous specialist publications, such as *Phytoma*, published by the *Société de Phytiâtrie et de Phytopharmacie* (an agronomical society), the vice-president of which is Dean R. Fabre.

#### Official Sanction

I should like to mention that the supply of phytopharmaceutical products by the pharmacist has been sanctioned by the official formulary. The French Codex, since its seventh edition in 1949, has had a section on "Preparations phytopharmaceutiques" that gives formulas and methods of preparation of poison-baits (sodium arsenate, chloralose, barium fluosilicate, hexachlorocyclohexane, metaldehyde, red squill), sprays (of copper, nicotine, sulphides of calcium), emulsions (of pyrethrum, derris, DDT, arachis oil), and a powder of calcium arsenate. The Supplement published in 1953 gave a definition of phytopharmacy, published the principles governing it, and the legal provisions affecting the supply of poisons, dangerous substances, and poison baits, and gave details of the method of the approval of antiparasitic preparations for agricultural use.

The important task of pharmacists in editing works on phytopharmacy should be mentioned. In 1948 the Manuel de Phytopharmacie by Professors Perrot, Fabre, Lutz, Valette, Raoul, and Cavier was published in three volumes, and quite recently Dean R. Fabre and Professor R. Truhaut have written a treatise entitled Toxicologie des Produits Phytopharmaceutiques. [At this point Professor Valette gave to the chairman, as representing the Society, a copy of the book on behalf of the authors.] There can be no better ending than a quotation from the introduction of Fabre and Truhaut's book, because it emphasises what I have dealt with:

"We think that a knowledge of phytopharmacy ought to be made as widespread as possible, so that the rural pharmacist can play a useful part by giving agriculture the benefit of his learning acquired in his course of studies. In this way will he collaborate effectively with the Plant Protection Service, and, having had a grounding in science, and being on the spot, he will be capable of making from day to day an indispensable contribution to the knowledge of all those who handle and use phytopharmaceutical products."

#### Discussion

DR. J. W. FAIRBAIRN, London, asked whether only refresher courses in phytopharmacy were given or were there courses in which undergraduate students were taught for a complete term? Did the pharmacist diagnose agricultural diseases and recommend treatment?

PROFESSOR VALETTE: Until 1953 in Paris there was a two-week course, and the examination was set at the end of it. The examiners were too lenient, however, and the intention was that they should now be much more severe. Students would now be obliged to wait some months to digest the teaching and a more severe examination would be set the following May. It should be possible for a pharmacist to diagnose diseases of plants from damaged parts brought to him by a farmer.

parts brought to him by a farmer.

PROFESSOR VALETTE replied that warnings were broadcast to farmers on, for example, when to destroy the Colorado beetle. Pharmacists wished to belong to those Stations d'Avertissement and in the last congress of U.T.I. two pharmacists had spoken of the rôle that they played in meteorological observations in connection with the invasions of parasites.

MR. T. D. WHITTET, London, suggested that a codex on phytopharmacy might be published. In a symposium on anticholinesterases in 1953 (see C. & D., August 29, 1953, p. 204) certain of the new insecticides had been shown to be vicious poisons. A compendium on symptoms and treatment would be useful.

PROFESSOR VALETTE replied that it was from the toxicological point of view that the pharmacist was in the strongest position. The agronomist had probably the same knowledge of zoology but pharmacists had the greater knowledge of toxic actions.

#### BRITISH FINE CHEMICALS AND THEIR USES

#### 23. CARBON TETRACHLORIDE

CARBON tetrachloride today has more and greater industrial applications than at any time previously. Methods of production are numerous, and chiefly relate to the action of chlorine on carbon disulphide, chloroform, or methane. Sulphur chloride is now usually substituted for chlorine alone, while silicon chloride, manganese chloride, and other preparations of chlorine have also been the subject of patent literature. Electric furnace methods of preparing carbon tetrachloride from coke, quartz sand, and common salt, and from silicon sulphide similarly produced, and also the use of aluminium amalgam, have been patented. Methods of purification relate to distillation, treatment with fine iron powder to remove traces of carbon disulphide; treatment with soluble sulphides of alkalis or alkaline earths to remove traces of sulphur chloride; or washing with hot alkalis.

Carbon tetrachloride is a poisonous liquid. Apart from producing unconsciousness, it exerts a powerful action on the liver to cause jaundice. As a fire extinguisher, it has dangers when used in confined spaces, as the fumes produced by its decomposition are poisonous, and it is also liable to produce small amounts of hydrochloric acid when in contact with moist metal surfaces. As a solvent for fats, carbon tetrachloride has enjoyed wide applications. It has replaced chloroform both for that purpose and as an extracting agent. Correspondingly it has largely replaced benzine for cleaning woollen goods, replacing that highly inflammable liquid with one that it is almost impossible to ignite. Carbon tetrachloride dissolves a number of hard and soft resins such as Siamese benzoin, dammar, mastic, elemi, etc., in the cold, while in the warm condition it is a still more powerful solvent. Various kinds of shellac, which are only slightly soluble in the pure commodity (for example, button lac, orange and bleached lac, etc.) are rendered easily soluble by using a mixture of forty parts carbon tetrachloride with thirty parts alcohol at moderate temperatures. Sandarac and Sumatra benzoin which are only slightly soluble in pure carbon tetrachloride, are readily soluble in similar mixtures. The solvent capacity of carbon tetrachloride is taken advantage of in the rubber industry. It is used in dyeing, in conjunction with Turkey red oil, in agriculture for grain fumigation, and has apparently been used in certain methods of producing chloroform.

#### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, DECEMBER 8: Trading conditions in all markets resembled those of previous weeks. Prices in the CRUDE DRUGS market held firm with Chinese MENTHOL registering a sharp advance of 5s. 6d. per 1b. on the week. That rise might have been considerably greater but for second-hand sellers of c.i.f. parcels quoting around 6s. per 1b. under China's asking.

A few small parcels of IPECACUANHA have been offered on the spot at levels which continued to follow the upward trend. There have been no direct shipment offers of the root from any of the usual sources. Jamaican Sarsathe usual sources. Jamaican Sarsa-Parilla was offered for shipment at 3s. 6d. per lb., c.i.f. Among Spices, CLOVES, Pepper and CINNAMON were inclined to be easier. No spot parcels of Turmeric have been on offer. Business is said to have been done in RAUWOLFIA SERPENTINA at a record level of 26s, 6d, per lb. Parcels of R. CANESCENS were being offered at well below that figure. Some varieties of Shellac are now unobtainable on the spot and fine orange has advanced by from 25s. to 40s. per cwt.

No price changes in Pharmaceutical

CHEMICALS have occurred, but MINOR iodides are expected to be dearer as a result of the rise in price of crude iodine announced a fortnight ago.

iodine announced a fortnight ago.
PEPPERMINT OILS from all sources showed steady gains; the Chinese arvensis being 3s. 6d. dearer, the Brazilian, 4s. and Italian "Mitcham" type, 4s. Also dearer among Essential Oils were Anise (by one shilling) and Cassia (sixpence). Pennyroyal made a sharp advance, the spot value being 16s. (against 11s. 6d. a few weeks ago). Bois de Rose was offered on the spot again but the price was up by 1s. 6d. per lb. on the previous value.

#### **Pharmaceutical Chemicals**

ANTIMONY SALTS.—Quotations for POT-ASSIUM TARTRATE, B.P., are 7s. 6d. per lb. for 1-10 cwt. and Sodium Tartrate, B.P., 13s. 3d.

ASPIRIN.--Prices are as follows:lots, 4s. 6d. per lb.; 1-cwt., 4s.  $6\frac{1}{2}$ d.; 28-lb., and under 1-cwt., 5s. 4d.

ATROPINE. — Rates (per oz.) for 16-oz. lots are: Alkaloid, 30s, 9d.; Sulphate, 25s. 9d.; Methylbromide, 31s. 9d.; Methylnitrate, 36s. 9d. The price for 1-oz. lots is 6d. per oz. more than the 16-oz lots.

BENTONITE.—Offers of B.P. material are about £70 per ton as to quantity.

BENZAMINE.—In 16-oz. lots, LACTATE is 15s. 3d. per oz. and HYDROCHLORIDE, 16s. 3d. per oz.

BENZOCAINE.--Minimum price for B.P. is 20s. 6d. per 1b.

BENZOIC ACID.—1-cwt. lots are 3s. 0½d. per lb. The SODIUM SALT is 2s. 10½d. per lb. in 1-cwt. lots.

BENZYL BENZOATE. - Makers' offers of B.P. grade range from 4s. per lb. for 1-ton lots to 6s. 9d. for smallest quantities.

CALAMINE.—1-cwt. lots are 1s. 7d. per 1b.; 10-cwt., 1s.  $5\frac{1}{2}$ d.

CHLORAL HYDRATE. — In 1-cwt. lots the price is from 3s. 10d. per lb. as to holder. CHLORBUTOL.—28-lb., lots are at the rate of 10s. per lb.

CHLOROXYLENOL.—B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt lots.

CITRATES.—Rates (per lb.) are as follows:—Potassium, 1-cwt. lots, 3s. 6½d.; 28-lb., 4s. 6d.; Sodium, 1-cwt., 2s. 11½d.; 28-lb., 3s. 10d. (powder of both salts two-pence more). Iron and Ammonium, 1-cwt. lots, 3s. 10½d. granulated, 4s. 2½d. scales.

CRESOL.—Price of B.P. quality from distillers is 7s. 9d. per gall. in 5-gall. lots.

CYCLOBARBITONE.—B.P.C. and CALCIUM DERIVATIVES in 1-cwt. lots are 65s. per lb.

DEXTROSE. — Rates are as follows: DEXTROSE. — Rates are as follows: — MONOHYDRATE, B.P., 1-lb., 1s. 11\fmathbf{1}d.; 7-lb., 11s. 10d.; 28-lb., 43s.; free packages, less 12\fmathbf{1}g per cent. to wholesalers. In bulk, 1-ton lots, £90 ex works. ANHYDROUS, B.P., 7-lb., 14s.; 14-lb., 26s. 3d.; 28-lb., 49s. (terms as for monohydrate). 1-ton lots, £107 10s. ex warehouse.

DICOPHANE (DDT).—Prices are as follows:— 1-cwt. lots, 3s. 1d. per lb.; 1-ton, 2s. 10d. Discount for larger quantities.

ERGOTOXINE ETHANESULPHONATE.—Price per gm. for B.P.C. (1949) is 1 gm., 125s.; 10 gm., 115s.

Formaldehyde. — B.P. solution is 34s. per cwt.

HOMATROPINE.—Current rates (per oz.) for 16-oz. lots are now: ALKALOID, 56s. 9d. HYDROBROMIDE, 39s. 3d; HYDROGUNONIDE, 42s. 2d. CHLORIDE, 43s. 2d.; METHYLBROMIDE, 48s. 9d. 1-oz. rates are about 6d. per oz. higher in all cases.

HYDROGEN PEROXIDE. — Manufacturers' price for single carboys of 20 volumes is 4s. 6d. per gail.

Lactose.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £137 per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals are 180s. per cwt., and technical, 160s.

LITHIUM SALTS. — Current minimum rates (5-cwt.) are as follows: —BENZOATE, 11s. per lb.; CARBONATE, B.P.C., 11s. 3d.; CHLORIDE (commercial), 10s. 9d. to 11s.; HYDROXIDE, 10s. 6d.; CITRATE, B.P.C., 9s.; SULPHATE, 8s. 6d.; SALICYLATE, 9s. 9d. (10-cwt.), delivered.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s, per cwt.; HEAVY is 150s, per cwt. for 5-cwt. lots and 124s. per cwt. for 1-ton lots.

MAGNESIUM HYDROXIDE.—Makers' prices for B.P.C., are: 1-cwt. lots, 3s. 5d. per 1b. and 1-ton, 3s. 2d. per 1b.

MAGNESIUM OXIDE, B.P. — Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and HEAVY, 5s. 4d. per lb. for minimum Bulk rates 1-ton lots.

METHYLPHENOBARBITONE.—B.P. is 45s. per lb. (1-cwt. lots).

OLEIC ACID. — Price for B.P. is about 153s. per cwt.

153s. per cwt.

Opiates.—Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows:—Codeine.—alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2.063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1,808s.); phosphate, 44s. 9d. (1,578s.). Diamorphine.—Alkaloid, 60s. 3d. per oz. (2,125s. per kilo); hydrochloride, 54s. 9d. (1,931s.). ETHYLMORPHINE.—Alkaloid, 63s. per oz. (2,222s. per kilo); hydrochloride, 53s. 9d. (1,896s.). Morphine.—Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2,134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. (1,773s.).

Papaverine.—Synthetic hydrochloride is offered at 330s. per kilo, and alkaloid at 420s.

Paraldehyde.—Carboy lots of pharmaceutical grade are 1s. 10½d. per lb.

SALICYLAMIDE. — Price (per 1b.) for 1-cwt. lots is 8s. 6d.

SODIUM CHLORIDE. — Re-crystallised is 20s. per cwt.

SODIUM PERBORATE. — Prices (per cwt.) are 142s. 9d. in 1-cwt. kegs; 135s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 305s. 3d. per cwt.

SODIUM PERCARBONATE.—1-cwt. kegs are about 163s. (bags 7s. 6d. lower) for minimum  $12\frac{1}{2}$  per cent. available oxygen.

STEARATES.—Prices for minimum 1-ton STEARATES.—Prices for minimum 1-ton lots are now as follows:—ALUMINIUM (all grades), £239 10s. per ton; CALCIUM (precipitated), £217 10s.; LEAD (30 per cent.), £222; LITHIUM, ordinary quality, £456 10s.; MAGNESIUM (standard), £238 10s. and (superfine), £266 10s.; ZINC, B.P., £268 10s. and standard, £240 10s. ZINC, B. £240 10s.

SULPHATHIAZOLE. — Price (per 1b.) for 1-cwt. lots is 21s. 9d.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are from 4s. 3½d. to 5s. 2d. per lb.

TEREBINTH.—B.P. is 2s. 3d. per 1b.

THEOPHYLLINE.—1-cwt. lots of ALKALOID are nominal at 29s. per lb. and AMINO-PHYLLINE at 28s.

ZINC CHLORIDE. — B.P.C., cake from 4s. 6d. to 4s. 10d. per 1b.; sticks from 5s. 10d. to 6s. 2d. per 1b. Technical, 135s. per cwt.

- Present rates (in force ZINC OXIDE. . since June 16) for B.P. quality are: 2-ton lots, £120 per ton; 1-ton, £121; 5-cwt., £123; under 5-cwt., £130.

ZINC PEROXIDE. — Price (per 1b.) for 1-cwt. lots of B.P. is 5s. 3d.

#### Crude Drugs

Buchu. — Scarce. No shipment offers. Sellers of spot supplies at 7s. per lb.

CAMPHOR. — B.P. POWDER is nominally 7s. per lb., duty paid. No shipment offers. Capsicums.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk,

CASCARA SAGRADA.—Unchanged. American new-crop peel for shipment is 220s. per cwt., c.i.f., London; spot, 265s., duty paid.

CHAMOMILE. — Belgian flowers are 5s. to 5s. 6d. per lb. on the spot.

CHERRY BARK. — Thin natural is from 1s. 8d. per lb., duty paid, and rossed, 2s. 1d., on the spot.

CINCHONA.—A parcel of chips (9:28 per cent. total alkaloids) is offered on the spot at 2s. 2d. per lb. San Thome broken quills to arrive are quoted at 1s. 8d. to 1s. 10d. as to test.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb.; OOOO, 6s. 3½d.; OOO, 6s. 2½d.; OO, 6s. 1½d.; O, 6s. 0½d.; firsts, 4s. 1¾d.; quillings, 2s. 7½d.; chips, 7½d.

CLOVES.—Zanzibar on the spot are now quoted at 3s. 11d. per lb.; November-December shipment, 3s. 5d., c.i.f.

COCHINEAL.—Supplies are virtually unobtainable. Parcels to arrive are expected to be 18s. to 19s. per lb. for black-brilliant and 16s. to 17s. for silver-grey.

Cocillana.—Value of bark is 3s. per 1b. landed, duty paid.

COLCHICUM.—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

Ergor. — For shipment Portuguese is 15s. 6d. per lb., c.i.f., and Polish, 7s. 6d., c.i.f. Spot, Portuguese is 16s. 9d.; Hungarian 10s. 6d.

HONEY. — Firm. Australian light-amber is offered on the spot at from 102s. 6d. to 110s. per cwt. and medium-amber, 95s. to 100s. Argen ine stocks are cleared. Jamaican, from 125s. to 135s.

Hydrastis.—Root is 18s. per lb., on

IPECACUANHA.—Nicaraguan was quoted at 65s, per lb. on the spot; Costa Rican at 68s, 6d, and Colombian at 62s. No direct shipment offers.

KARAYA. — No. 1 gum on the spot is quoted at 325s. per cwt., and No. 2 at 225s. KOLA NUT. — African halves are avail-

able on the spot at 53d. per lb.

Lanolin. — In 1-ton lots the price of ANHYDROUS, B.P., is about 200s. per cwt. and HYDROUS, B.P., 145s.

LIQUORICE.—Natural whole root, spot: Anatolian, 60s. per cwt.; Russian, from 45s. to 47s. 6d.; Persian, 37s. 6d. Block juice quotations are 220s. per cwt. on the spot. Italian stick from 310s. to 475s. per cwt. duty poid. cwt., duty paid.

MACE. — West Indian pale blade is 9s. per lb.; for January-February, 1955 shipment, 8s. 7d., c.i.f.

Mercury. — Nominal spot value £110 per flask of 76-lb. ex-warehouse.

MENTHOL.—Dearer. Chinese is 48s. per lb., duty paid with origin asking 52s., c.if. for shipment. Second-hand sellers at 46s., c.i.f.

MYRRH.—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

NUTMEGS. — West Indian 80's quoted at 3s. per lb. on the spot and 2s. 9d., c.i.f., for shipment.

Papain.—Spot value for East African grade one is 18s. per lb.

grade one is 18s. per lb.

PEPPER. — Market is easier with little business reported. White Sarawak on spot is 4s. 3d. per lb. with aftoat parcels quoted at 4s. 1d. to 4s. 2d., c.i.f. Black Sarawak is 3s. 2d. spot; aftoat, 2s. 11½d. to 3s., c.i.f. Black Malabar is offered at 510s. per cwt. on the spot and December-January shipment, 345s., c.i.f.

QUASSIA.—Spot quotations for chips are about 45s.

RAUWOLFIA SERPENTINA. — Upwards of 26s. 6d. per lb. paid for spot supplies.

RHUBARB.—Spot offers of Chinese are from 8s. 3d. per lb. upwards for fair to good quality. Shipment from 7s. 3d.,

SAFFRON. — Mancha superior is about 175s. per lb.

SARSAPARILLA.—Jamaican native red on

the spot is unobtainable. Shipment offers at 3s. 6d. per lb., c.i.f.

SASSAFRAS BARK.—Select round is 6s. 3d. and natural, 4s. 3d. per lb. landed terms.

and natural, 4s. 3d. per lb. landed terms. SEEDS.—(Per cwt.). Anise.—Bulgarian, 210s., duty paid, London. Caraway.—Dearer. Dutch now 172s. 6d., duty paid for December delivery. Celery.—Indian is unchanged at 155s. on spot. For shipment, January-February 1955, 115s., c.i.f. Coriander. — Firm. Spot: Morocco nominal at 85s. to 90s., Shipment, Morocco, 64s., c.i.f. Cumin. — Market steady with small business passing. Spot: Cyprian, 125s.; Morocco, 127s. 6d., duty paid. Shipment: Cyprian, 105s.; Morocco, 102s. 6d., c.i.f., London. Dill.—Indian is in short supply on spot with business reported at 105s. Fennel.—Quiet. Indian offered at 95s., spot; shipment, 85s., c.i.f. Fenugreers.—Firm. Morocco on spot is 56s. to 57s. 6d., duty Quiet. Indian offered at 95s., spot; snipment, 85s., c.i.f. Fenugreek.—Firm. Morocco on spot is 56s. to 57s. 6d., duty paid. Mustard. — English now quoted 72s. 6d, to 90s. according to quality.

SHELLAC.—Fine orange, 450s. to 490s, per cwt., ex-London warehouse. Other grades are nominal.

STROPHANTHUS,—Kombé is 7s. 6d. per lb. on the spot.

STYRAX.—Spot is 5s. 7d. per lb., duty

TURMERIC. — Madras finger is nominal at 230s. per cwt. spot. New-crop for March-April 1955 shipment is quoted at about 130s., c.i.f. Old-crop Rajapore for December shipment quoted at 180s.,

UVA URSI.—Spot offers are about 85s. per cwt.

Valerian.—Indian is 145s. per cwt. on the spot and from 130s. to 145s., c.i.f. Belgian, 185s., spot.

Vanillin. — Rates (per lb.) are;—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

#### **Essential and Expressed Oils**

ALMOND.—B.P. is from 6s. 6d. to 7s. 6d. per lb., as to quantity.

AMBER.-Rectified on the spot is quoted at from 1s. 6d. per lb.

Angelica seed.—Price per lb. is now quoted at 260s.

ANISE. — Nominal price, all positions, is 19s. 6d. per lb.

BAY.—West Indian is 13s. per lb. on the

BOIS DE ROSE. — Brazilian on the spot is 36s. 6d. per lb. and 34s. 6d., c.i.f., December-January shipment.

CAMPHOR, WHITE. — Chinese is 3s. per lb., duty paid.

Cananga. — Supplies to come forward are quoted at from 60s. per lb., c.i.f. Spot is from 62s. 6d. per lb.

CARAWAY. — English-distilled is offered at 45s.; imported oil at 28s. 6d. to 30s. per lb.

CASCARILLA. — Imported is from 295s. per lb.

Cassia,—Original drums are about 9s. 6d. per lb. for spot and nominal for

CHENOPODIUM.—1-cwt. lots are 49s. per

CITRONELLA.—Ceylon is 8s. on the spot and 7s. 5d., c.i.f., December-January 1955 shipment; Formosan, 11s. 6d., in bond and 11s., c.i.f.; Java, 13s., duty paid and

CLOVE. — Madagascar leaf is 12s, 6d, per lb., duty paid and 10s, 3d., c.i.f., for shipment. Redistilled stem oil from 19s, and English distilled bud oil from 37s, 6d.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CUMIN. — Quotations for English-distilled oil are about 75s. per lb. and imported, 57s. 6d.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are officred at from 32s, 6d. per lb.

FENNEL.—Spanish sweet on the spot is quoted from 9s. 6d. per lb.

GARLIC.—English is from 55s. to 60s.

GERANIUM.—Bourbon is 82s. 6d. per lb. on the spot and Algerian, 76s. 6d.

GINGER. — English-distilled oil is from 140s. per lb. Imported oils are available at 100s. per lb.

Grapefruit.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

LAVANDIN. - Spot is 19s. per lb., nominal.

LAVENDER SPIKE.—Spanish is about 15s.

LEMON. — B.P. (4 per cent. citral) on the spot is 38s. to 40s. per lb. Californian, 25s. to 40s., c.i.f., as to quality, subject to licence.

LEMONGRASS.—Spot supplies are quoted lower at 18s. 9d. per lb. and shipment at 17s. 6d., c.i.f.

LIME. — Supplies of West Indian distilled are offered from 38s. to 40s. per lb. on the spot.

NUTMEG. — English-distilled oil is 35s. per lb. Imported oil is offered at 25s. 6d. per lb., duty paid for drum lots.

OLIVE.—Spanish virgin and pharmaceu-OLIVE.—Spanish virgin and pharmaceutical oils (B.P.) are offered on the basis of £214 5s. per 1,000 kilos, f.o.b., Spanish ports for prompt shipment. Equivalent landed terms ex-wharf London/Liverpool approximately 21s. per gall, for minimum 1-ton lots (5 x 48-gall, 45 per part of the property of the p gall, for minimum 1-ton lots (5 x 48-gall, drums). French virgin (maximum acidity, 1 per cent.) at £225 and B.P., £220 per 1,000 kilos, c. and f. (equivalent to 19s. 9d. and 19s. 6d. per gall, spot).

Orange.—Spot offers for sweet vary between 7s, 6d, and 8s, 6d, per lb, as to quality. Bitter orange, 24s, spot. Californian sweet, 6s., c.i.f., and coldpressed U.S.P. 9s. 3d., c.i.f., subject to

PALMAROSA. — East Indian is 62s. 6d. per lb., on the spot, and 55s., c.i.f. for shipment.

PENNYROYAL. — Dearer. Spot value is now about 16s. per lb., duty paid.

PEPPERMINT. — Arvensis: Chinese is dearer at 41s. per lb., spot and 40s. 6d., c.i.f. Brazilian is now 31s., c.i.f. Italian "Mitcham" type oil is 68s. and American 53s., per lb. on the spot.

Petitgrain. — Paraguay is quoted for shipment at 30s. per lb., c.i.f.

PINE.—Punilionis on the spot is from 16s. per lb.; sylvestris, 9s. Siberian (abietis), 10s. 6d.

ROSEMARY. — Spanish oil on the spot is from 5s. 6d. per lb., duty paid, for B.P. quality.

Rue.—Spot offers are from 16s. 6d. per lb. for small lots.

SAGE.—Spanish is offered at from 8s. per lb. and Dalmatian at 50s., duty paid. Spearmint. — Offers of U.S.P. quality vary between 32s. 6d. and 38s. per ib. on the spot.

TITREE. - Spot supplies are offered at 10s. per lb.

VETIVERT. — Bourbon in original drums on the spot is 90s. per lb.

#### UNITED STATES REPORT

NEW YORK, DECEMBER 7: In FINE CHEMICALS, a possible price increase in domestic CAFFEINE is indicated because of rising material costs. Synthetic CAM-PHOR prices are firmly maintained while MENTHOL is soft, with natural material off 10 cents to \$7.65 per lb. CRUDE DRUGS are firm and a little more active with supplies light. GUM ACACIA has advanced 14 cents per lb. to 213 cents, Spanish SAFFRON one dollar to \$29.00, and WITCH HAZEL LEAVES two cents to 22 cents.

ESSENTIAL OIL values have generally displayed an easy undertone reflecting reduced demands. Italian ORANGE and LAVANDIN are down 15 cents to \$3.85 and \$3.00 respectively. CLOVE LEAF is lower by 10 cents to \$1.55 and PAT-CHOULI by 35 cents to \$8.00. California Lemon has been cut 25 cents to \$4.75 and Petitgrain, 15 cents to \$4.00. Cedarwood and Pine (pumilionis), however, have both moved up five cents to \$1.30 and \$2.85 due to limited supplies.

#### WORLD TRADE

U.S. Sulphur Production.—The sulphur industry in the United States produced 439,244 long tons of native sulphur and 27,200 long tons of recovered sulphur during September according to the U.S. Bureau of Mines. Producers' stocks of native sulphur on September 30 stood at 3,229,407 tons.

French Import Duties.—The French Finance Ministry has suspended temporarily the 30 per cent, import duty on aromatic polyacids and their byproducts and on phthalic acids. It also suspended temporarily the five per cent. import duty on lemongrass essence.

Argentine Imports.—The Argentine Central Bank has announced that it will allow the importation of goods valued at 39.1 million pesos from the sterling area, Italy and Holland. The goods will include acacia and other gums, chemicals, surgical instruments and industrial acids.

West German Chemical Industry.-Sales of West-German chemical products to the United States have improved in the past few months, although the general trend of West German exports to the U.S. was downward. The industry earned more than 14 per cent. of West Germany's freely convertible currencies in the first seven months of this year.

Swiss Chemical Exports.—The value of Swiss exports of chemical products in October was Swiss francs 77 millions — the same as in September. However, considerable changes took place as regards the value of exports of each main group, for example, dye-stuffs rose from (all figures in million Sw. frs.) 24.7 to 28.6, but pharmaceuticals declined from 37.6 to 33.2.

Egyptian Control of Insecticides. A recent Egyptian law (1954: No. 509) forbids the trading in or the export of insecticides into Egypt without the authority of the Egyptian Ministry of Agriculture. The Ministry will shortly issue an order indicating those insecticides which may be imported and sold in Egypt, and specifying the composi-tion of each insecticide. Permission to trade in any of the insecticides in-cluded in the order will be given after a sample has been tested and approved by the Ministry on payment of a fee of £E.1. Insecticides not included in the order will be tested on payment of a fee of £E.5 and, if approved, they will be allowed to be imported.

U.S. Export-Import Bank Credit.-The United States Export-Import Bank has announced the granting of a credit totalling \$1.5 millions to help finance the construction of a chemical factory in Brazil. It is made to W. R. factory in Brazil. It is made to w. R. Grace & Co. and the American Home Products Corporation who are to combine with the Brazilian Fongra Produtos Químicos S. A. of Brazil to form a new company. It is also reported that the German chemical firm Farbwerke Hoechst A. G. is to have a share in the company which is to build a factory at Suzano about 30 miles east of Sao Paulo to manufac-ture DDT, industrial solvents, deter-gents, caustic soda, chlorine and other chemicals.

#### TRADE MARKS

#### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," November 17 For imide compounds prepared for use in medi-

cine and ptarmacy (5) QUATRIMIDE, 732,878, by Welkleen Products, London, N.W.1.

For preparations for regulating the growth of plants; and weedkillers and fungicides (5)
TARDONE, 733,641, by Pest Control, Ltd., Bourn, Cambs.

For medicinal lotions (5)

PARAGOONA, 734,253, by Frederick Clifford Upton, Birmingham.

For disinfectants, deodorants, germicides and sanitary substances (5)

SCOTRAM, 734,528, by R. S. Guthrie & Co. (Scotland), Ltd., Edinburgh.

#### From the "Trade Marks Journal," November 24

For all goods (1)

PURGATOL, 718,418, by Dr. G. Eberle & Cie, Wurttemberg, Germany, SOLSAX, 732,085, by Harrogate Pharmaceuticals, Ltd., Bridgend, Glam,

For synthetic resins, and plasticisers being chemical products for use in the manufacture of lacquers and in the plastic industry (1)

ALSYNOL. 731,139, by N.V. Chemische Industrie Synres, Amsterdam, Holland.

For chemical products included in class 1 used in agriculture, horticulture and forestry (1) AKAR 338, by J. R. Geigy, S.A. (G. R. Geigy, A.G.), Basle, Switzerland.

For wetting agents being chemical preparations for use as waterproofing compounds in manufacture (1)

NONOSTRIP, 733,815, by Johnston Bros. (Contractors), Ltd., London, E.C.3.

For chemical products for use in colour photography (1)

DROXYCHROME, 734,624, by May & Baker,

Ltd., Dagenham, Essex. For all goods (3)

STIM, B729,541, by Henry Wild, Blackpool, Lancs.

For essential oils (3)

EXTRODOR, 730,822, by Westfalische Essenzen-Fabrik, F. W. Baecker Kommanditgesellschaft, Dortmund, Germany.

SPADENT, 733,539, by the Forest Dental Laboratories, Lydney, Glos. SOOSAL, 734,331, by Canning & Wildblood, Ltd., Birmingham.

For non-medicated toilet preparations (3) FUREUR, 733,896, by Coty (England), Ltd., London, W.1.

For bandages, plasters, dressings and wadding, all for medical and surgical purposes, and materials prepared for bandaging (5)

SYNTHOFIL, 720,484, by Chemische Forschungsgerellschaft, m.b.H., Munich, Germany. SERICUT, 733,419, by Alexander Carus & Sons, Ltd., Darwen, Lancs.

For antibiotics of cytostatic effect (5) SANAMYCIN, 726,168, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For pharmaceutical preparations and substances

(5) SLENDERELLA, 726,420, by Slenderella Systems, Inc., Delaware, U.S.A. EXTRAVITE, 732,406, by Multipax Chemicals, Ltd., London, W.1. COASTGUARD, 734,482, by Oakwood Refined Oils, Ossett, Yorks.

For pharmaceutical preparations in the form of emulsions (5)

VIREMUL, 732,029, by Philip Harris, Ltd., Birmingham.

For medicinal preparations in tablet form for

use in the treatment of asthma (5) FYDALEX, 732,261, by Boots Pure Drug Co., Ltd., Nottingham.

For sulphonamides and preparations containing sulphonamides, all being pharmaceutical preparations for human use or veterinary use (5) PENIDURAL-SULPHAS, 733,018, by Ameri-

can Home Products Corporation, Delaware,

For disinfectants, sanitary substances and pre-parations for killing weeds and destroying ver-

KEYSTONE, 733,067, by Keystone Chemical Co., Ltd., London, W.1.

For rodenticides (5)

RODARIN, 733,978, by Thomas Harley, Ltd.. Perth, Scotland.

For preparations for killing weeds (5) VIGZOL BLITZWEED, 734,256, by the Vigzol Oil Co., Ltd., London, W.1.

For non-medicated toilet paper (16) ARVON, 733,759, LUMEX, 733,769, by Ellern Paper Co., Ltd., Ashford, Middlesex.

From the "Trade Marks Journal," December 1 For chemical substances included in class 1 for

use in electric batteries (1) BATLIFE, 726,672, by Richard John Beasant, Wantage, Berks.

For adhesives included in class 1 (1) TENSULAC, 733,899, by Berry Wiggins & Co., Ltd., London, E.C.4,

For chemical products used in industry; and chemical products included in class 1 used in agriculture, horticulture and forestry (1)
BIOTEXIN, 734,475, by Glaxo Laboratories,

Ltd., Greenford, Middlesex.

For preparations for preventing condensation of moisture on industrial goggles and the like optical equipment (1)
PAR-MIST, 734.540, by Parmalee (G.B.), Ltd.,

London, E.C.1,

For non-medicated toilet preparations (3)
PAULETTE BARDIN, 719,895, by Paulette
Bardin De Bradaracco, Buenos Aires,
Argentina. Device of a Mosque, 721,305, by
Campagnie Française de l'Afrique Occidentale, Campagnie Française de l'Afrique Occidentale, Marseille, France. PICOT, 728,073, by Pcot, Ltd., London, W.6. LOVE APPLE, 728,558, by Herbert William Hill, Guernsey, Channel Islands. PINK ICE, 732,284, by Akos Chemicals, Ltd., London, N.W.8, LOVE-PAT, 734,137, by Revlon Products Corporation, New York, U.S.A. MADAMINA, 734,638, by Coty (England), Ltd., London, W.1.

For detergents (not for use in industrial and manufacturing processes) (3)

LEVER, 725,018, by Lever Brothers (Port Sunlight), Ltd., Port Sunlight, Ches.

For all goods (3)

OLVERUM No.: 1265, 726,355, by Monchof Edith Klein-Wolferts Kommanditgesellschaft, Germany. ETHICON. Traben-Trarbach, 728,355, by Ethicon, Inc., New Jersey, U.S.A.

For preparations and substances for laundry use, cleaning, polishing, scouring and abrasive pre-parations, and detergents (not for use in industrial and manufacturing processes) (3)

RENAID, 730,920, by Laporte Chemicals, Ltd., London, W.1.

For depilatory preparations (3)
AZER, 732,393, by Carter Products, Inc., Maryland, U.S.A.

For all goods (3) SAVLON, 733,288, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For polishes (3)

VELOX, 734,682, by English Waxes, Ltd., Stafford.

For rose hip syrup for pharmaceutical purposes

DELROSA, 722,702, by Scott & Turner, Ltd.,

Gallowgate, Newcastle-on-Tyne. For antibiotic preparations being pharmaceutical

TETRACYN, 725,526, by Chas, Pfizer & Co., Inc., Delaware, U.S.A. STECLIN, 734,549, by E. R. Squibb & Sons, Ltd., also trading as E. R. Squibb & Sons, London, W.1.

For pharmaceutical preparations for increasing weight and appetite (5)

APPE-STIM, 727,706, by Henry Wild, Blackpool.

For embrocations (5)

EES-ALL EMBROCATION and device, 731,134, by Ada Elizabeth Elliot, London,

#### PRINT AND PUBLICITY

#### Booklets and Leaflets

CHEMISTS FEDERATION, 4 Queen Square, W.C.I:
"The Handbook of the Chemists Federation," Pp. 72. The layout and presentation has been changed considerably to provide easier reference. Contents include a list of points for the guidance of retailer members, and alphabetical lists of C.F. manufacturers, wholesalers and products.

CHILEAN IODINE EDUCATIONAL BUREAU, Stone House, Bishopsgate, London, E.C.2: "Iodine Information," No. 43. Radiographic Contrast Information," media, Pp. 24,

MONSANTO CHEMICALS, LTD., Victoria Station House, Victoria Street, London, S.W.1: "Phenol Facts and Handling." Pp. 24,

MURPHY CHEMICAL Co., LTD., Wheathampstead, Herts: "Murphy Winter Washes, 1954-55." Pp. 6.

Riker Laboratories, Ltd., Loughbo Leics: "Calcium Disodium Versenate" Loughborough. typescript in card folder).

WATFORD CHEMICAL Co., LTD., 22 Copperfield Road, Canal Road, London, E.3: "Cosmetic and Pharmaceutical Emulsions." Pp. 11. Suggested formulations using various emulsifying agents.

#### Show Material

B. G. P. (COSMETICS), LTD., 37 Chesham Place, London, S.W.1: Showcard for Lip-cote.

FREEDER BROTHERS PAPER MILLS, Brimsdown, Enfield, Middlesex: Window display card for Kwickdry paper towels.

PHILIPS ELECTRICAL, LTD., Century House, Shaftesbury Avenue, London, W.C.2: Christmas window bill, 14 x 10 in., in four colours, letterpress, from an original coloured photo-

#### Catalogues

BRITISH COUNCIL, Medical Department, 65 Davies Street, London, W.1: British Medical Book List, Vol. 4. No. 10, Pp. 8.

CLEAVER-HUME PRESS, LTD., Publishing Division, Wright's Lane, Kensington, London, W.8: Classified, Descriptive, Winter 1954-55. Pp. 48.

HALEX, LTD., Highams Park, London, E.4: "Halex for Christmas." Pp. 8.

POTTER & MOORE, LTD., Lavender House, London, E.10: Christmas gifts. Pp. 8.

#### Periodicals

BRITISH PRODUCTIVITY COUNCIL, 21 Tothill Street, London, S.W.1. B.P.C. Bulletin, November 1954, Pp. 4.

INNOXA (ENGLAND), LTD., 1 Eden Street, London, N.W.1: Approach, Vol. 2, No. 11, November 1954. Pp. 4.

PARKE, DAVIS & Co., LTD., Staines Road, Hounslow, Middlesex: Bulletin, No. 3, 1954. Pp. 10.

#### Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists, BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Albucid Eye Prepara-tions," "Neo-mercazole" (letters to doctors and sampling cards), "Oblivon" (12-p. book-let); "Albucid Eye Drops and Ointment" (card).

PAINES & BYRNE, LTD., Perivale, Greenford, Middlesex: "Pabyrn Pancreatin Preparations," "Crystalline Suspensions," "Hemoplex," "Thiamoplex," "Menthesin," "Nebadrene" (cards).

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: "Gantrisin Abstract, No. 205" (2-p. leaflet); "Dromoran" (blotter).

THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1: "Tercin for the Relief of Mild Forms of Pain," "Pernivit for Chilblains" (4-p. booklets); "Dehydrocholin, P.D.H." (holytes) B.D.H." (blotter).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex; "Largactil Bulletin No. 1," "Concise Information on Largactil" (4-p. leaflets); "S.V.C. Acetarsol Vaginal

Compound," "Barbiturate Therapy" (20-p. and 52-p. booklets respectively).

PHARMACEUTICAL LABORATORIES GEIGY, Rhodes, Middleton, Manchester: "Butazoli-din in the Treatment of Rheumatic Diseases," "Tromexan: A Rapidly Acting Oral Anticoagu lant," "Siogen Antiseptic and Antimyeotic Lozenges" (10-p., 12-p., and 4-p. booklets).

ICHARD NORMAN, LTD., Commonwealth House, New Oxford Street, London, W.C.1: "Afton Moss" (4-p. leaflet). RICHARD

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10: "Androstalone" (8-p.

SHARP & DOHME, LTD., Hoddesdon, Herts: " Melozets (card, with tear-off sampling card).

JOHN WYETH & BRO., LTD., Clifton House, Euston Road, London, N.W.1: "Aids to Anti-spasmodics (Wyovin)," "A Classification of Sleeplessness (Ethobral) " (12-p. and 8-p. book-

#### Advertising Campaigns

COUNTY LABORATORIES, LTD., Honeypot Stammore, Middlesex: Brylcreem. Ha in Daily Express on December 14. Half-page

EUGENE, LTD., 143 Regent Street, London, W.1: Eugene beauty shampoo, Weekly programme on Radio Luxembourg, incorporating offer of free horoscope in exchange for empty packet.

EVAN WILLIAMS Co., LTD., Aintree Road, Perivale, Greenford, Middlesex: Perfumed colour rinses. National advertising.

Evanol, Ltd., Highbury, London, N.5: Evanol liquid hair brighteners. Heavy national adver-

J. W. S. HISLOP, LTD., 50 Fore Street, Edmonton, London, N.18: Kumfy Kiddy baby pants. On television.

W. HAMPSHIRE & Co., LTD., Sunnydale, Derby: Zubes cough mixture, In national daily and Sunday Press, mid-week and week-end

INTERNATIONAL LABORATORIES, LTD., 205 Hook Road, Surbiton, Surrey: Neodex capsules and ointment, On Radio Luxembourg every Sunday evening throughout the winter.

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15: Radian-A, Radian-B and Radian massage cream, Advertising in 1955 is being increased by 20 per cent, over current year. In many additional national daily and Sunday newspapers, women's journals and sporting magazines.

St. Andrew Mills, Ltd., 34 St. Andrew Road London, E.17: Andrex toilet tissue. In weekly and monthly magazines.

VACUUM FLASK MANUFACTURERS OF GREAT BRITAIN: Vacuum ware, Collective advertising to housewives.

REMINGTON RAND (SHAVER DIVISION), LTD., 1 New Oxford Street, London, W.C.1: Remingion 60 dry shaver, Half-page in Daily Express on December 18.

THOMAS KERFOOT & Co., LTD., Vale of Bardsley, Ashton-under-Lyne, Lanes: Vapex medicated rub, In national daily and Sunday Press and magazines. From January 1, 1955.

VOCALZONE, LTD., 120 Moorgate, London, E.C.2: Vocalzone throat pastilles. In national Press, periodicals, on the underground railways and Radio Luxembourg.

WHITEWAYS CYDER CO., LTD., Whimple, Devon: Sanatogen tonic wine. National advertising.

YARDLEY & Co., LTD., 33 Old Bond Street, London, W.1. Gifts. Half-page in Daily Ex-press on December 20.

#### Price Lists

LTD., Bullhead Road, Boreham BIOMETICA. Wood, Herts: Pinaud, Ltd., products. Pp. 6.

DUNCAN, FLOCKHART & CO., LTD., 155 Farringdon Road, London, E.C.1: Medical Specialities. October 1954, Pp. 26.

#### COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

#### Monday, December 13

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, Bloomsbury Square, London, W.C.1, at 7.30 p.m. Dr. J. W. Fairbairn (reader in pharmacognosy, London University), on "A Year in America." IDate of meeting incorrectly given in last week's issue as December 6. Apologies

to all concerned.—EDITOR.]

ENFIELD CHEMISTS' ASSOCIATION and BRANCH,
George Inn, Enfield Town, at 7.30 p.m. Mr.
A. R. Wiseman on "The Newspaper and its

Production."

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, The Unicorn, Gidea Park, at 7.45 p.m. Dr. S. Locket on "The Barbiturates."

#### Tuesday, December 14

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun Hotel, Hanworth Road, Hounslow, at 8 p.m. Display of holiday films. Manchester Branch, Guild of Public Pharma-

cists, Queen's Hotel, Manchester, at 6.30 p.m. Mr. A. G. Fishburn on "The Use of Silicones in Pharmacy and Medicine."

#### Wednesday, December 15

BOURNEMOUTH PHARMACEUTICAL ASSOCIATION and Branch, Grand Hotel, Bournemouth, at 8 p.m. Christmas dance and social.

#### Thursday, December 16

CHEMICAL SOCIETY, Burlington House, Piccadilly, London, W.1, at 7.30 p.m. Professor G. R. Clemo on "Some Newer Aspects of the Organic Chemistry of Nitrogen."

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH,

Stork Hotel, Liverpool, at 7.30 p.m. Meeting.

#### C. & D. WEEKLY LIST OF PRICES

A-Advanced; R-Reduced; I.R.P.-Inclusive Retail Price; \*-Tax 25 per cent.

ALLEN &	HANBURYS,	LTD.	I.R.P.
Hepol	2-c.c. 5	42 0 Each	5 3 R
Charkaolin*	10-c.c. 7oz. 3 lb.	3 0 3 8	4 6 R 6 6 A 35 0 A

GLAXO LABORATORIES, LTD. [correction] Procaine pen'cillin G
veterinary cerate 300,000
units per tube

single-dose tubes 12 10 8 16 0 R The 100,000 unit strength is unchanged in

IBCO PRODUCTS, LTD. (from January 1, Gross 240 0

P.A.T.A. PROTECTED LIST (Prices notified this week by the Proprietary Articles Trade Association.) HALL FORSTER & CO. LTD. (Addition)

Eldon safety vaporiser 42 0 5 0
The model retailing at 3s, 4d, has been discontinued.

SOLPORT BROS., LTD. (from December 1)
Portia sports shade\* 30 0 4 6 R
Portia minor shade 10 0 1 3 R

#### NEW PRODUCTS AND PACKS EVANS MEDICAL SUPPLIES, LTD.

Each 20 6 250 mil Nobecutane

THOS. GUEST & CO., LTD. Cachous & oz.

IMPERIAL CHEMICAL (PHARMACEUTI-IMPERIAL 250 c.c. 214 0 Anavenol K

G. H. LAWRENCE, LTD. Lambswool

B. H. RIES, LTD. 179 0

WARD, BLENKINSOP & CO., LTD.
Noracin\*

15 c.c.

3 6



# be ready with 'PERNIVIT'

TRADE MARE

widely accepted as a most effective oral treatment and a preventive against the subsequent reappearance of chilblains.

Pernivit tablets contain Acetomenaphthone B.P. 7 mg. and Nicotinic Acid B.P. 25 mg.

Trade Retail

Bottles of 50 tablets 2/- 3/
,, 500 ,, 13/- 19/6
(Exempt Purchase Tax)

# and now with 'PERNICREAM'

formulated to relieve, by local application, the itching and irritation of chilblains. A non-greasy preparation incorporating amethocaine, menthol and benzyl alcohol.

Collapsible tubes

Trade Retail 2/11

Including Purchase Tax

(Details of quantity discounts and bonus terms on application)

## Sales Aids

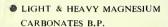
PERNIVIT

Display cartons containing 6 bottles.

PERNICREAM

Display cartons containing 12 tubes. A showcard size 8" x 6" Printed in colours to match the pack.

#### Pattinson's REGISTERED BRAND PRODUCTS



- LIGHT & HEAVY MAGNESIUM OXIDES B.P.
- MAGNESIUM OXIDE LEVISSIMA
- MAGNESIUM HYDROXIDE
- MAGNESIUM TRISILICATE B.P.
- CREAM OF MAGNESIA B.P.

Our Research Division welcomes enquiries from any manufacturer with a problem in which any of the above products are concerned. Please write to our Sales Technical Department if you require fuller information.

for the **PHARMAGEUTICAL** Industry

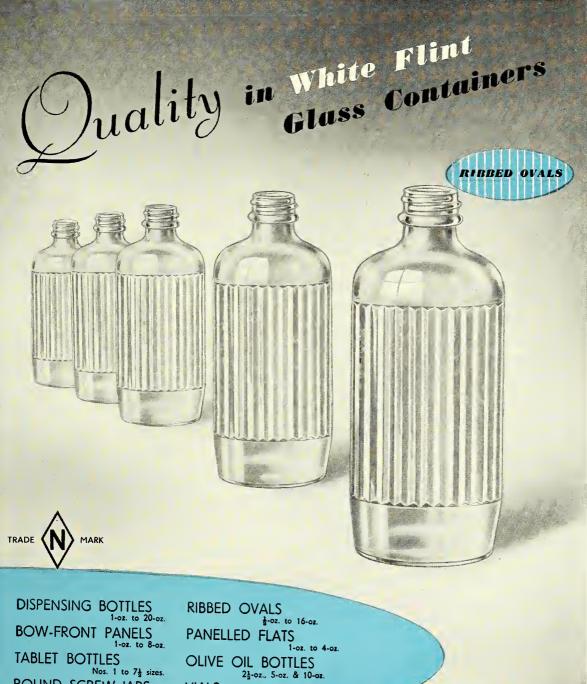
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Tall and Semi-squat.

**VIALS** 

1-oz. to 3-oz.

WHOLESALE ONLY

Prompt delivery from stock

 Packed in easily handled cartons Bow-Front Panels now also available In 16 oz. size

NATIONAL GLASS WORKS (YORK) LTD.

FISHERGATE, YORK. Tel. YORK 3021.
ALSO AT: 105 HATTON GARDEN, LONDON. E.C.1.
TEL HOLBORN 2146

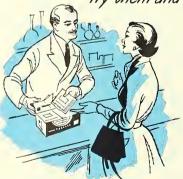
THEY'RE 3-PLY

THEY'RE "WET STRONG"

THEY LOOK LIKE LINEN

# They're Nationally Advertised and they give you a clear profit of 2° a packet

Try them and see why your customers use



# ANDIES

for hankies

Order through your wholesaler-Trade 4'- doz.-Retail 6d. packet













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TUNE IN TO MEDIUM WAVE This top-line T.V. show will now reach the big Saturday evening audience of Radio Luxembourg. It means over 5,000,000 of the public hearing a great show - and hearing the 'ASPRO' message too.

Get ALL the Sales this will bring you -

DISPLAY ASPRO ON YOUR COUNTER!

# Hn Hdvance in Contraception

ANTEMIN—an entirely new contraceptive cream recently introduced—constitutes a notable advance in modern methods of family planning. Formulated in the light of extensive research, it affords all the qualities desirable in a contraceptive preparation.

# ntemin

Retail Price . . . 3/- per tube

Trade Discount 33\frac{1}{3}\%

Spermicidal activity S/4.

- pH value approximating to normal vaginal secretion.
- Cosmetic-type cream base...Nonfriable and tenacious.
- Non-irritant to vaginal mucosa. Non-toxic.
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"MECCA" COUGH PASTILLES
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'EXTRA' BUSINESS Why not take advantage of the goodwill established with the public by BROOKS Rupture Appliances in over 45 years of value-for-money trading?

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THE CHANGE TO SEE THE PROPERTY OF THE PROPERTY

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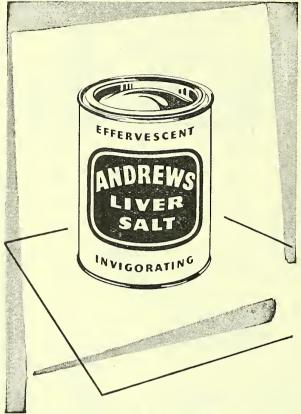
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Andrews has the largest sale of any effervescing saline in the world. This is because:—

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SURGICAL ELASTIC HOSIERY

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Over 60 years' service of everything surgical

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A Nation-wide sampling scheme for



THE THROAT PASTILLES

produced especially for

CARUSO, the great Italian tenor,

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At the reduced price of

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Vocalzone Pastilles will be in great demand this winter

Obtainable from your usual suppliers or direct from

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## When your advice is sought....

for digestive upsets

Exerting an immediate and prolonged neutralizing action, 'Milk of Magnesia' Tablets are particularly valuable to the chronic or casual sufferer from dyspepsia and acid indigestion.

Pleasantly mint flavoured and

disintegrating readily in the mouth, they require no water to assist assimilation and may conveniently be carried in pocket or purse ready for use whenever the first symptoms of pain or discomfort appear.

# 'Milk of Magnesia'

The other Phillips' Proven Products are:-

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Of unsurpassed efficacy in the treatment of a wide variety of conditions associated with gastric acid disturbances.

#### Mil-Par ? REGD.

A genuinely mild evacuant ideally suited for administration to young infants, the enfeebled, sick or elderly.

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A dentifrice of proved efficacy in keeping the teeth scrupulously clean. Contains 'Milk of Magnesia' to neutralize harmful mouth acids.

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Compounded from the natural extracts of senna and figs. A gentle yet efficacious laxative for family use.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179 ACTON VALE, LONDON, W.3.

# PERRY'S NEW FORMULA' INFANT POWDERS

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PERFECTLY SAFE FOR
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DO NOT CONTAIN
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# "ROND THEE" NIGHT DRIVING GLASSES

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RETAILS FAST AT ONLY
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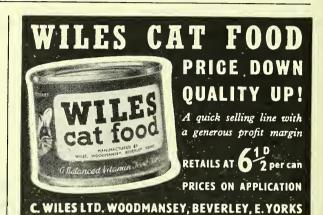
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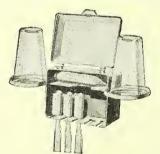
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THE FIRST AND ONLY PERFECT CABINET FOR STORING TOOTH-PASTE AND BRUSHES, INCORPORATING SPACE FOR A TUMBLER AT EACH END. IN GREEN OR IVORY PLASTIC, IT RETAILS AT A VERY LOW PRICE AND IS BACKED BY ADVERTISING. YOU SHOULD STOCK THIS NOW!

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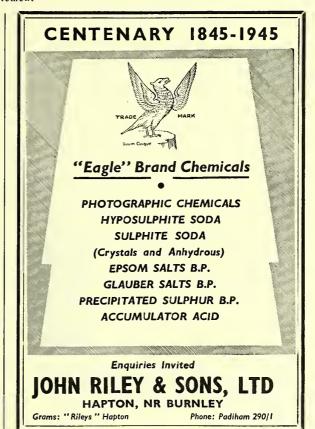
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For the pharmacist and his staff. Contains over 7,000 synonymous terms.

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The Chemist and Druggist
28 ESSEX STREET, LONDON, W.C.2

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THE ORIGINAL

#### WIDOW WELCH'S FEMALE PILLS

Over 10d BOX PROFIT by ordering I dozen 4/1 size. Bonus given on every dozen (13) It pays to push this size.

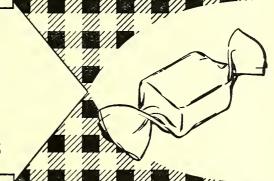
Established 1787
In the Reign of
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C. & G. KEARSLEY LTD.
71 DARTMOUTH ROAD, LONDON, S.E.23

#### HERE'S A SWEET PROFIT!

These are our new sweets — and how they're selling! Butterscotch flavoured, they contain glucose for quick energy, malt extract to keep you going, and they're packed in  $\frac{1}{4}$  lb film bags (no weighing up) with the familiar tartan pattern

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## BARIUM SULPHATE B.P.

Bariform Brand Barium Sulphate for X-ray diagnoses is a fine white powder conforming to the B.P.

Designed for the preparation of barium meals, it has excellent suspensibility and extremely fine particle size.

It is also available as a rapidly dispersible paste.

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10 and 20 volumes in bottles. A wide range of packs and labels available.



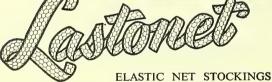
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Laporte Chemicals Ltd., Luton. Tel.: Luton 4390 Grams: "Laporte Luton

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Real Lastonet stockings are always made to measure to ensure a perfect fit. Customers also prefer the feather-weight net which is cool, and stretches in all directions for firm even support. Lastonet discounts, too, are particularly generous! Send today for supply of measurement forms and display material to participate in this brisk trade.

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#### **TABLETS**

Rational, symptomatic treatment in

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Each tablet contains Ephedrine, the important anti-spasmodic for bronchial spasm, Theobromine, for its relaxing effect on the bronchial muscle and for stimulation of the coronary circulation, Phenazone, for its soothing effect on the higher centres, and Calcium gluconate, a readily absorbable calcium salt, for diminishing capillary permeability and checking the secretion of mucus.

These active ingredients with complementary effects in bronchial asthma are presented in the following proportions in the 'EPHAZONE' Tablet:

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hydrochloride - - -  $\frac{1}{4}$  grain Theobromine - - - -  $\frac{1}{2}$  grain Phenazone - - - 1 grain Calcium gluconate - -  $\frac{1}{4}$  grain

This preparation is sanctioned for prescription under N.H.S. EPHAZONE LTD. 59 Brook St., London, W.1. Tel: Mayfair 5496

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and all other Botanicals, Gums, Waxes, Essential Oils and Spices

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## Something they can trust

The public likes something reliable, something with dependable high quality. A faithful following is the public's response to trustworthy products that give real satisfaction.

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### Superfine Cotton Wool

This is a very old Trade Mark of ours and a product for many years in use by the Medical Profession and all those requiring a First Class Superfine Cotton Wool. Now packed in attractive white Cartons in various sizes and would be readily acceptable to your more exacting customers.

> Of course this is just one of our Manufactures. We also supply in Cartons all BPC Dressings in Cotton Wool, Lint and Gauze.

Our Products are obtainable from Wholesalers, but should you have difficulty a line to us will have prompt attention.

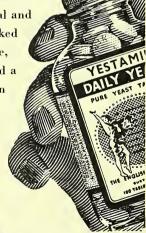
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The large and growing market for dried yeast is your opportunity to build up your sales of YESTAMIN. This ethical and profitable product is backed by steady, large space, national advertising. Find a place for YESTAMIN in your window now!

50 TABLETS Retail 1/3 Trade 10/6 per doz. 100 TABLETS Retail 1/101 Trade 15/9 per doz. 300 TABLETS Retail 4/9 Trade 40/- per doz.



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## Your diabetic patients.

can enjoy refreshing drinks of Rose's Diabetic Lime Juice and Fruit Squashes. These products are of Rose's usual high quality and are specially prepared without added sugar. Rose's Diabetic Lime Juice costs 3/6 a bottle; the Fruit Squashes—Orange or Lemon—3/-.

ROSE'S Diabetic Fruit Drinks

FROM LEADING CHEMISTS

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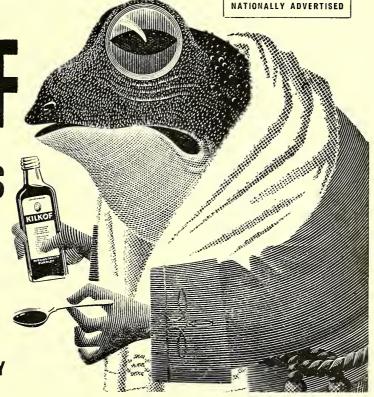
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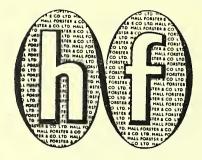
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Manufacturing Chemists





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Meet the demand for Seasonal 'Own Name' Counter Goods with these popular lines GLYCERIN, HONEY & LEMON · CODEINE LINCTUS GEE'S LINCTUS · BLACKCURRANT COUGH SYRUP COMPOUND CODEINE TABLETS.

All manufactured to the highest pharmaceutical standards of purity. Special terms for assorted orders.

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Have you seen

new beautifully designed show card size 23' x 17; in 6 bright colours?

Supplied with two side panels each 17" x 10½" the whole making an attractive window display, or can be used separately as counter show cards.

#### NOW IS THE TIME

to make a window display and ensure a steady flow of repeat orders for "AUTUMN SUN,"

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The complete set is FREE; ask our representative or write direct, sent post free.

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CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel.: Belfast 27078 

#### BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d. per word. Box 2/-

OFFERS WANTED at once re Frank Apple-yard, deceased's old-established chemist's busi-ness, Main road, Bradford. Audited accounts. Business, property and adjoining premises to be disposed of at once. Apply Dobson, Auctioneer, 7/9 Queensgate, Bradford. C 7833

SHARES OF RETAIL PHARMACY company with loss over £3,000 for sale. Please apply Box C 7865.

#### **APPOINTMENTS**

18/- per half-inch (min.) and pro rata. Box 2/-

#### PHARMACIST

required for

required for

TANGANYIKA GOVERNMENT
MEDICAL DEPARTMENT

for one tour of 30/36 months in first instance
with Provident Fund benefits, Salary scale (including Inducement Pay and present temporary
allowance of 10 per cent, of salary) £772 rising
to £1,498 a year. Commencing salary according
to experience, Outfit allowance up to £45.
Free passages, Liberal leave on full salary.
Arrangements exist for preserving N.H.S, superannuation rights in approved cases, Candidates
must be M.P.S, and have a practical knowledge
of hospital routine, stores, management and the
manufacture of galenicals. Write to the Crown
Agents, 4 Millbank, London, S.W.I, State age,
name in block letters, full qualifications and
experience and quote M3A/34598/CD, C 7858

#### COLCHESTER GROUP HOSPITAL MANAGEMENT COMMITTEE

Assistant in Dispensing

Applications are invited for the post of Assistant in Dispensing at the ESSEX COUNTY HOSPITAL, COLCHESTER. Salary and conditions of service in accordance with Whitley

ditions of service in accordance with values. Council decisions.

Applications, stating age, experience, qualifications and names of two referees, to the Group Secretary, 14 Pope's Lane, Colchester, C 7845

#### ROYAL GWENT HOSPITAL, NEWPORT. ST. LAWRENCE HOSPITAL, **CHEPSTOW**

Dispenser

required at each Hospital in January (Apothecaries Hall or equivalent). Salary according to age, rising from £195 at 18 to £255 at 20 and £350 at 22, eventually to £450. Candidates over 22 start at salary for age 22. Write stating age, experience, post preferred and two referees to T. A. Jones, Group Secretary, 64 Cardiff Road, Newport, Mon.

#### SOUTH WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE, WEST MIDDLESEX HOSPITAL, ISLEWORTH

Pharmacist (Category V)

required. Salary scale £450 x £25 to £575 plus London Weighting, Higher qualifications allowance £25 per annum. Whitley conditions applicable.

Applications stating age, qualifications and experience with names of two referees to Chief Pharmacist.

#### ST. ALFEGE'S HOSPITAL. GREENWICH, S.E.10

Deputy Chief Pharmacist

Applications are invited for the post of Deputy Chief Pharmacist in a well-equipped department at above hospital, Inspection of department may be made by arrangement with Chief Pharmacist. Whitley Council salary and conditions, Applications to Group Secretary, G. & D./H.M.C. at above hospital.

#### ST. PETER'S HOSPITAL, CHERTSEY, SURREY (404 Beds)

Pharmacist

required. Salary and conditions of service in accordance with Whitley scales. Applications stating age and experience together with the names of two referees should be sent to the Hospital Secretary. C 7783

## SWINDON AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE

Assistant in Dispensing

Applications invited for post of Assistant in Dispensing. Hospital experience desirable but not essential, Candidates should be over age 22. Salary £335-£435, plus £15 p.a. for holders of A.H. Certificate or equivalent. Approved conditions.

Applications, with full details and names of two referees, as soon as possible, to Secretary, 7 Okus Road, Swindon.

### WORTHING GROUP HOSPITAL MANAGEMENT COMMITTEE, WORTHING HOSPITAL, LYNDHURST ROAD, WORTHING, SUSSEX

Pharmacist

Applications are invited for the post of Pharmacist (male or female) at the above Hospital, Salary and conditions of service in accordance with the Pharmaceutical Whitley Council, Applications, stating age, qualifications, experience and present employment with the names of two referees to be forwarded to the Hospital Secretary. Secretary.

A. V. OAKTON, Group Secretary. C 7856

#### SITUATIONS OPEN

8/6 for 36 words (min.) then 3d, per word. Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

#### RETAIL (HOME)

BAYSWATER, Experienced unqualified lady assistant required for high-class pharmacy, Vacancy available immediately after Christmas. Please apply to the Manager, John Harley, Ltd., 25 Queensway, W.2. C 1984

BOROUGHBRIDGE, YORKS. Unqualified lady assistant for country business. Duties mostly dispensing and counter work. Dispensing not heavy. A very pleasant district about 11 miles from Harrogate. Kindly give full details including age, experience, and salary required to G. Moore, Chemist, Boroughbridge, Yorks. C 1988

CAERNARVON, NORTH WALES. Pharmacist, lady or gent, required to manage oldestablished business. Excellent assisting staff. Normal hours. Permanent position. Apply Box C 1972.

DONCASTER CO-OPERATIVE CHEMISTS. DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of three pharmacists (male or female). Two as branch managers, one as relief branch manager. 44-hour week; minimum salary £780, plus rota pay, etc. There is living accommodation for one branch manager. Applications, giving usual details, to Secretary, Doncaster Co-operative Chemists, Ltd., St. Sepulchre Gate, Doncaster, C 199

ENFIELD. Young lady required for dispensing in pharmacy with busy N.H.S. Previous experience essential, Permanent and congenial position. Apply, stating age and details of previous experience to Box C 7806.

LFORD. Pharmacist required to manage expanding branch close to busy main-line station, Up-to-date dispensary and excellent supporting staff, Self-contained flat available within easy distance of the branch, Attractive salary and bonus scheme. Apply with full details stating when available for interview to Box C 1980.

when available for interview to Box C 1980.

NORTH LONDON SUBURB. Pharmacist required to manage spacious well-fitted branch with substantial counter trade, Good opportunity for ambitious man to earn top salary together with monthly bonus and rota duty payments. Accommodation available if required or assistance given in house purchase. Superannuation benefits, etc. Apply with full details stating when available for interview to Box C 1979.

PAIGNTON, UNQUALIFIED, thorough knowledge photographic dealing, take charge of shop (largely photographic) but selling cosmetics, patents, and packed drugs. Bathes, Ltd., 24 Fleet Street, Torquay.

PHARMACIST to manage shop on outskirts of Hanley, mainly N.H.S., small counter, two assistants. Salary £16 weekly to commence, plus house or £1 in lieu. Box C 1950,

UNISEC' from the Single Unit to the Complete Pharmacy WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING MYERS of OLD 133/5 & 141/7 OLD STREET, LONDON, E.C.I

#### EST. 1883 815. 1941 C. Ribbands & S The Complete Pharmacy Fitters Shortronts and Interiors 3 RAVEY ST., BISHOPSGATE, LONDON, E.C. 2.

#### CIBA

#### PHARMACIST

PHARMACISI

Able young Pharmacist required by CIBA Laboratories Limited, for their rapidly expanding modern pharmaceutical factory in Sussex. Opening provides scope for substantial development. Age under 30, Excellent conditions of employment including contributory Pension Fund, Initial help with housing for married man, Send details of education, qualifications, experience and salaries earned to Works Manager, CIBA Laboratories Limited, Horsham, Sussex.

C 7854 Horsham, Sussex.

#### CIBA

#### JUNIOR SALES EXECUTIVE

Applications are invited from young pharmacists, This position is progressive and will provide excellent opportunities for the right man, Five-day week, canteen facilities and contributory Pension Fund. Applicants should send full details of age, education, experience and qualifications, to the Sales Manager, CIBA Laboratories Limited, Horsham, Sussex.

#### Situations Open—Continued

POTTERS BAR, MIDDLESEX, Excellent opportunity for Pharmacist to manage well-established branch in pleasant area, Developments now in progress indicate rapid expansion of shopping centre in wh'ch same is situated, with corresponding increase of business under efficient management, Nicely fitted shop, good supporting staff, generous salary plus monthly bonus and rota duty payments when incurred. Permanency with super annuation benefits, Apply with usual details indicating when free for interview to Box C 1982.

TOTTENHAM, N.17. Lady counter assistant with previous experience, or dispenser, required for branch at Park Lane, Permanent position, Hours 9 a.m.—6 p.m. Thursday 1 p.m. Apply stating ac and full details of previous experence to Messrs, A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 and 2916 for an appointment.

C 7834

TWICKENHAM. Excellent opportunity for TWICKENHAM. Excellent opportunity for pharmacist to manage family type business in pleasant riverside district with good living accommodation over. Permanency with superannuation benefits. Good salary and commission. Nicely fitted shop with adequate supporting staff. Apply with full details stating when available for interview to Box C 1981.

UNQUALIFIED ASSISTANT WANTED with UNQUALIFIED ASSISTANT WANTED with a sound knowledge of agricultural and horticultural products. Applicants should be capable of driving a car and of discussing with farmers and others the technicalities of pharmaceut.cal agricultural preparations. The position, which is in Hertfordshire, is of a permanent character. Box C 7841.

#### WHOLESALE

A VACANCY OCCURS on the editorial staff of The Chemist and Druggist for a male pharmacist, aged twenty-five to thirty. The work entails handling news of pharmaceutical affairs and preparing it to appear in print, Experience of journalism is not required but an interest in events and some fluency in writing are essential. The work is exacting, demanding accuracy and speed (even working against time) but varied and interesting. Apply in writing to the Editor, The Chemist and Druggist, 28 Essex Street, London, W.C.2, C7849

gist, 28 Essex Street, London, W.C.2, C 7849

A WELL-KNOWN cthical pharmaceutical house is augmenting its large representative staff, and requires men of exceptional ability and sound experience in the best type of medical representation, to call on doctors in the following areas: 1. Hampshire, Dorset and Wiltshire; 2. Birmingham and suburbs; 3. Herefordshire, Warwickshire and Worcestershire (excluding Birmingham), Attractive salaries with incentives are offered with company car and l.beral expenses, Apply in confidence giving full details of previous experience, to the Sales Manager, Box C 7863.

BOTTLE TRAVELLER WANTED. Salesman/representative required with previous experience in selling bottles, jars and screw caps. Write, giving full particulars to Reliance Trading Co., 13 New College Parade, Finchley Road, London, N.W.3.

A WELL-KNOWN pharmaceutical house has, through promotion, an immediate vacancy for a medical representative with first-class experience, to cover the North London area, This progressive post offers an excellent opportunity to a man with personality and experience in detailing ethical products to all branches of the medical profession. The appointment is pensionable and a profit-sharing bonus scheme is in operation, Company car will be provided and all expenses paid, Apply in writing, stating experience and salary required to Sales Manager, Box C 7862.

BAYER PRODUCTS, LTD., require a young pharmacist for a position in their sales dept. at Kingston-on-Thames. The post offers good prospects for a man who would like to make a career for himself in the pharmaceutical industry. Applications in confidence to Sales Directo., Bayer Products, Ltd., Neville House, Eden St., Kingston-on-Thames, Surrey. C 7868

IMPERIAL CHEMICAL INDUSTRIES, LTD., IMPERIAL CHEMICAL INDUSTRIES, LTD., intends to increase its sales force by appointing additional medical representatives in various parts of the United Kingdom, Applications are invited from men with a sound medical or pharmaceutical background between 25 and 35 years of age, Successful candidates will receive an initial period of training and there will be additional training for young appl'cants who lack experience of medical representative work. Apply in writing to the Staff Manager, Imper'al Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester, C 784.

IRELAND, Wholesale and manufacturing che-IRELAND, Wholesale and manufacturing chemists in Dublin will consider applications for the position of manager of their patents, proprietaries, and sundries warehouse. Excellent opportunity for man with wholesale experience of stock recording and staff control already resident in, or desirous of returning to, Ireland, Fulle't details of career and suggested salary to Box C 1969.

to Box C 1969.

JANUARY APPOINTMENTS, London (South and North), Surrey and South Coast, Yorkshire, Progressive manufacturers of exceptionally presented and saleable range of proprietaries and medical confectionery require representatives or sole agents of outstanding ability capable of extending existing business, Consideration given to those requiring joint representation with present house, Applicants must be car owners with strong connections, Ability and integrity more important than age. Fullest confidential information including selling background necessary in first instance, Replies to Sales Director, Box C 1983.

MANAGER REQUIRED for warchouse of

MANAGER REQUIRED for warchouse of Scottish wholesale chemists distributing a wide range of drugs and pharmaceuticals, The position is one of responsibility and only those capable of supervising staff should apply. Write, stating age and experience to Box No, 837, Keith & Co., Advertising Agents, 137 Princes Street, Edinburgh, 2. C 7851

MANESTY MACHINES, LTD., Speke, Liver-MANESTY MACRINES, LID., SPEKE, LINE, pool, 19, require an experienced pharmacist or chemist for their experimental and advisory service. Knowledge of tablet making essential, Life insurance, pension and profit-sharing schemes in operation. Write, giving full details of age and experience, to the General Manager. C 7864 MAY & BAKER, LTD., Dagenham, Essex, require a sales representative to call on pharmaceutical wholesalers, manufacturers and hospitals in the West Midlands, Appl'cants should be prepared to work away from home during the week if necessary. The territory will be extended as experience is gained, Candidates with a pharmaceutical or technical background, and preferably with representative experience, are invited to apply for this progressive and interesting position, initially in writing, to the Personnel Officer, quoting Ref. No. 44. C 7866

Personnel Officer, quoting Ref. No. 44. C7000

MEDICAL REPRESENTATIVES required immediately by Lederle Laboratories for the following areas: (1) Manchester; (2) North Riding, Yorkshire, Applicants should be men of striking personality and initiative, should be 25-35 and have a pharmaceutical qualification or experience with an ethical house of detail work among doctors and hospitals, Congenial, well-paid posts backed by outstanding products and first-class promotional material. Liberal expenses, company car supplied, Fullest details in writing to Sales Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London W.C.2.

MEDICAL REPRESENTATIVES: Sandoz Products, Ltd., invite applications from young men for the immediate appointment of medical representatives in the following areas: (a) Bristol, including Gloucestershire, Somerset, Devon and Cornwall; (b) South Wales, including South Welsh Counties and Herefordshire; (c) North West Glasgow and North Western Scotland; (d) Oxfordshire, Berkshire, Buckinghamshire and Northamptonshire; (e) Dorset, Hampshire and Wilshire, Attractive salary; superannuation scheme in operation, Thorough training given. Age not exceeding 30, Applicants should be pharmacists (preferably F.P.S.). Please send full details of age, education, qualifications and experience with photograph, Staff Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.I.

PARKE DAVIS & COMPANY, LIMITED.

PARKE, DAVIS & COMPANY, LIMITED invite applications from pharmacists for a junior executive position in their pharmaceutical manufacturing division, The position offers an opportunity to gain wide experience in modern large-scale production methods with excellent promotion prospects. Some previous manufacturing experience is desirable, although not essential, Five-day week, staff restaurant, generous pension plan, Write, with full particulars to Personnel Manager, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, C 7832

REPRESENTATIVES WANTED, calling on chemists and stores in Scotland, also N.E., N.W., and S.W. areas England, Generous commission on very competitive line, Box

C 1951.

SALES REPRESENTATIVES living in or near London, Birmingham, Glasgow or Edinburgh, required by manufacturers of famous pharmaceutical products. Applicants must have successful records in selling to chemists and wholesalers, and have good cducation, personality and appearance, Age 25 to 35. Positions offer good prospects in an expanding company, Cars provided by company. Write, giving full details of experience and qualifications, age, and starting salary expected to Box C 7844.

#### CIBA LABORATORIES, LTD.

require a pharmacist as medical representative to call on doctors, hospitals and chemists in certain English-speaking parts of Africa and two adjacent territories. Previous experience is not essential as a thorough training will be given in the U.K. Good salary, full expenses and an overseas allowance will be paid. Initial contract for three years with generous periods of home leave.

Apply in writing with full particulars to Ciba Laboratories, Ltd., Horsham, Sussex. Envelopes should be marked "Confidential. Overseas Representative."

#### RIKER

RIKER LABORATORIES LIMITED require an Assistant Sales Executive to assist in advertising, the compilation of medical literature and to deal with enquiries of a technical nature.

A pharmaceutical qualification or previous experience in this type of work is essential and candidates should have a flair for writing.

This post offers an opportunity of joining, at an early stage in its development, a growing ethical pharmaceutical house, marketing the products of two American Research Órganisations.

Remuneration is by salary and bonus, and there is a company pension scheme in operation.

Apply in writing to the Managing Director, Morley Street, Loughborough, Leics. C 7839

#### Situations Open—Continued

REPRESENTATIVE REQUIRED by West Yorkshire concern of manufacturing chemists covering the following areas:—North East Yorkshire, Durham and South of Northumberland, Pension scheme available, Applicants must reside in the area, Reply in own handwriting stating experience and salary required to Box C 7852.

SALESMEN TRAVELLERS. DALESMEN IRAVELLERS. Agents calling upon chemists, having regular and good connections, are required for a new nationally advertised toilet product. An easy and fastelling and regular article, top commission paid. Write stating area covered to Box C 7811. Agents

WELL-KNOWN London manufacturers have a vacancy for a gentleman to handle their Advertising, Sound experience all aspects dental advertising and sales promotion essential, Salary £750-£850, Applications with full particulars to Box C 7831.

YOUNG PHARMACIST (male) required in the manufacturing department of a well-known pharmaceutical and toilet house in London. Applicants possessing some manufacturing experience would be an advantage. Apply in writing, stating age, experience and salary required to Box C 7859.

#### WHOLESALE (OVERSEAS)

FOOD CHEMIST—COLOMBIA. Large American organisation requires a fully qualified and experienced food chemist for its candy, chocolate and biscuit factory in Colombta, South America, Salary commensurate with qualifications and experience will be partly paid in U.S. dollars, Home leave with free passages after three years. Please write fully giving age (preferably under 40 years), experience, qualifications and family status to Box J401, c/o Jackson's, 54 Old Broad Street, London, E.C.2.

#### SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word. Box 1/-

#### WHOLESALE

DO YOU WANT a successful medical representative. One with 10 years' active work in Lanes, My results show, in 12 months, nil to £1,500 per month turnover. Age 36. Box C 1986.

EX SALES EXECUTIVE offers efficient representation London and/or Home Counties. Salary, commission or agency basis, Car owner, Box C 1985.

REPRESENTATIVE, age 32, good connection with hospital pharmacists, supplies departments, etc., offers his services to firm requiring representation in the Surrey area. Apply Box C 1971. REPRESENTATIVE. Many years' experience with chemists, stores, etc. North-west England and Midlands. Salary, expenses and commission. Apply Box C 1973.

#### **AGENCIES**

17/6 for 36 words (min.) then 4d. per word. Box 2/-

#### **EXCEPTIONAL OPPORTUNITY**

One of the best known and widely advertised manufacturers of Permanent Waving products offers important lines to Travellers with live connections amongst Ladies' Hairdressers, Commission basis only. This is a aressers, Commission basis only, This is a new departure and provides a rare oppor-tunity to link up with a firm of highest repute and lines that sell well. Write stat-ing area covered with proof of connections and lines carried to Box C 7847.

MANUFACTURERS' REPRESENTATIVE wanted with wide wholesale connection to introduce a very competitive and comprehensive new range of all plastic hairbrushes, Box C 1987.

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THE TRADE MARKS set out below were assigned on October 11, 1954, by Splendor, Ltd., of 7c Lower Belgrave Street, Westminster, S.W.1, to Alec Lillywhite of 13 Queen Square, Leeds, without the goodwill of the business in which they were then in use:—No. 576487, Mark: CRO-PAX, Goods: Medicated preparations for human use for the feet. No. 577279, Mark: CRO-PAX, Goods: Perfumery (including toilet articles and preparations for the teeth and hair) but not including soap, No. 713952, Mark: PRO-PAX, Goods: Pharmaceutical preparations in tablet form for use in treatment of colds, headaches, chills and similar ailments. C 7867

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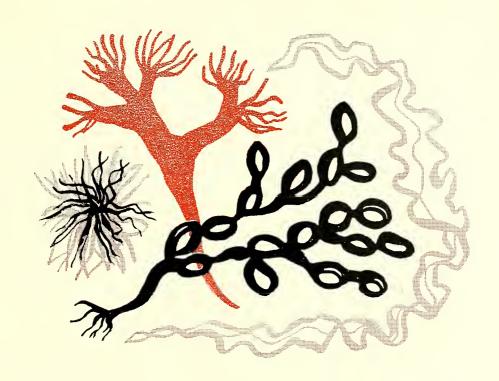
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